TEST

TEST 12 JMP

MD-11-DOL-A

EP-DOL-A-DL-A

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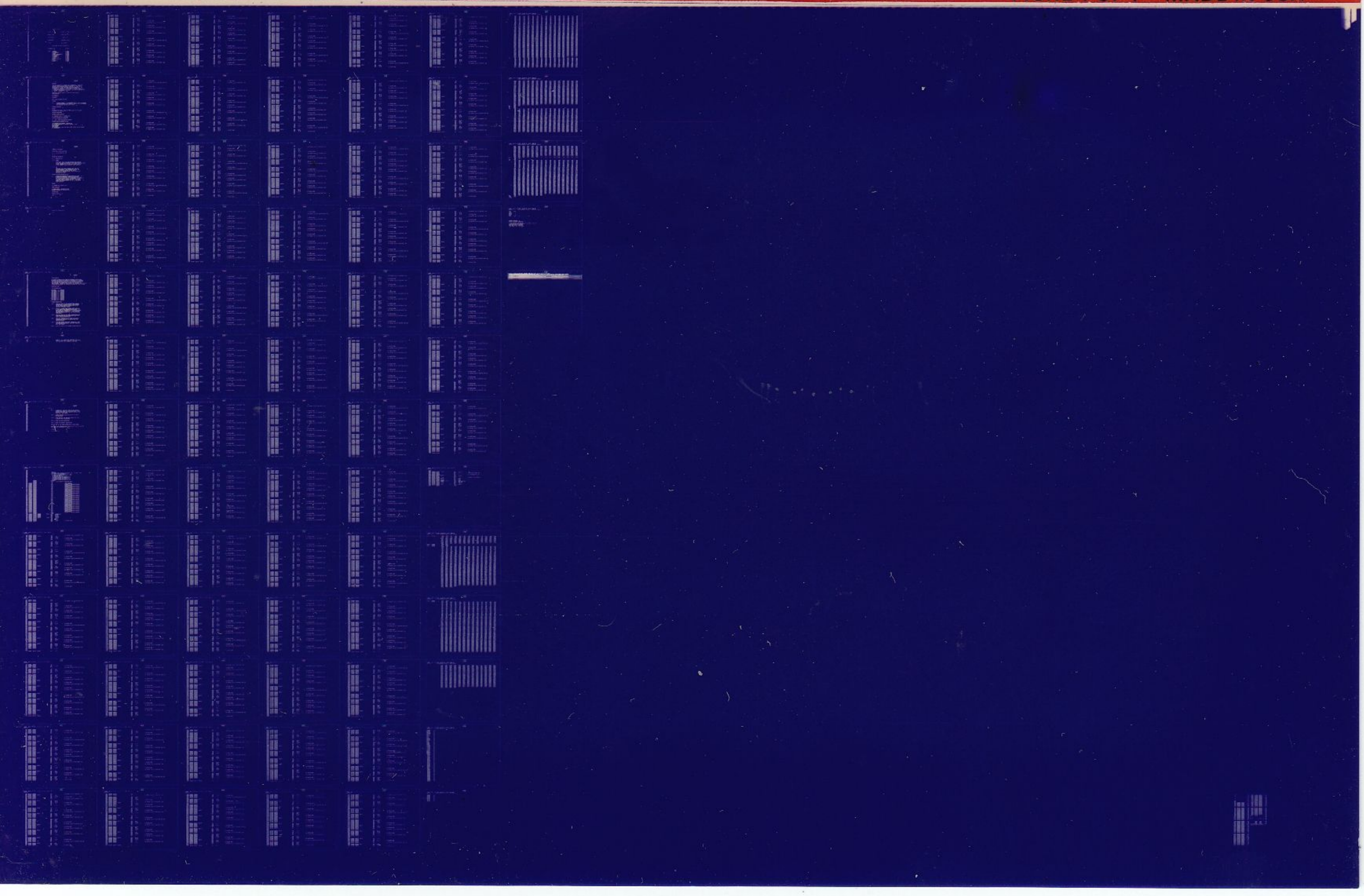
MADE IN USA



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                                .REM    %
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IDENTIFICATION

PRODUCT CODE:	MAINDEC-11-DOAA TO DOLA-D
PRODUCT NAME:	FIRST LEVEL 1-12
DATE CREATED:	17 MARCH 1970
MAINTAINER:	DIAGNOSTIC GROUP
AUTHOR:	JOHN HITTELL

THIS GROUP OF TESTS CONSIST OF:

PROCESSOR TEST			MAINDEC
TEST	1	BRANCH	11-DOAA
	2	CON BRANCH	11-DOBA
	3	UNARY	11-DOCA
	4	UNARY AND BINARYS	11-DODA
	5	ROTATE/SHIFT	11-DOEA
	6	COMPARE	11-DOFA
	7	COMPARE NOT	11-DOGA
	8	MOVE	11-DOHA
	9	BIS,BIC AND BIT	11-DOIA
	10	ADD	11-DOJA
	11	SUBTRACT	11-DOKA
	12	JMP	11-DOLA

1. ABSTRACT

THIS IS A GROUP OF 12 TESTS THAT INCREMENTALLY TEST AND ISOLATE SIMPLE MALFUNCTIONS OF THE PDP 11. THE TESTS SHOULD BE RUN IN THE INDICATED NUMERICAL SEQUENCE. THE SEQUENCE IS 1. BRANCH 2. CONDITIONAL BRANCH 3. UNARY 4. UNARY AND BINARYS 5. ROTATE/SHIFT 6. COMPARE (EQUALITY) 7. COMPARE (NON EQUALITY) 8. MOVE 9. BIT SET, CLEAR AND TEST 10. ADD 11. SUBTRACT 12. JUMP

THERE IS A SECOND GROUP OF TESTS FOR MORE COMPLEX MALFUNCTIONS.

2. REQUIREMENTS

2.1 EQUIPMENT

PDP-11/20 STANDARD COMPUTER

2.2 STORAGE

2.2.1 PROGRAM STORAGE - THE PROGRAMS USE ALL OF A 4KW MEMORY WITH THE EXCEPTION OF 17500 TO 17776 (WHICH IS RESERVED FOR THE BOOT AND ABSOLUTE LOADER).

3. LOADING PROCEDURE

3.1 METHOD

PROCEDURE FOR NORMAL ABSOLUTE TAPES SHOULD BE FOLLOWED.

4. STARTING PROCEDURE

4.1 CONTROL SWITCH SETTING

ALL PROGRAMS START AT ADDRESS 200.

4.2 STARTING ADDRESS OR ADDRESSES

(A) 200 = START AND RESTART ADDRESS

4.3 PROGRAM AND/OR OPERATOR ACTION

LOAD PROGRAM INTO MEMORY. (BOTTOM 4K)
SET SWITCH REGISTER TO STARTING ADDRESS. (200)
LOAD ADDRESS.
PRESS START.
THE PROGRAM WILL LOOP, AND RING A BELL AFTER A FIXED NUMBER OF ITERATIONS.

5. OPERATING PROCEDURE

5.1 OPERATIONAL SWITCH SETTINGS

5.1.1 NO SWITCHES ARE USED

5.1.3

5.2 SUBROUTINE ABSTRACTS

5.2.1 BEGIN SA 200

5.2.2 SCOPE

IS A "NOP" THAT IS PLACED BETWEEN EACH SUBTEST IN THE INSTRUCTION SECTION. IF A SCOPE LOOP IS NEEDED, INSERT A BRANCH TO THE PREVIOUS SCOPE LOCATION AT THE CURRENT SCOPE LOCATION. (NOTE NOP=240)

5.2.3 HLT

INDICATES THE UNIQUE ADDRESS THAT TAGS THE FAILING SUBTEST. THE INCORRECT DATA AT THE TIME OF THE FAILURE MAY OR MAY NOT BE DISPLAYED IN REGISTER ZERO, WHICH IS THE DATA REGISTER ON A HALT.

5.3 PROGRAM AND/OR OPERATOR ACTION

5.3.1 LOADING AND STARTING AT 200 STARTS THE TEST. IF AN ERROR IS DETECTED, THERE WILL BE A HALT. WHEN A HALT OCCURS AND IT IS NECESSARY TO SCOPE ON IT, PLACE INSERT A BRANCH INSTRUCTION IN THE SCOPE LOCATION FOLLOWING THE HALT. THE BRANCH INSTRUCTION SHOULD BRANCH YOU TO THE PREVIOUS SCOPE LOCATION.

6. ERRORS

6.1 ALL ERRORS WILL CAUSE A HALT.

6.2 ERROR RECOVERY

ON TRAP ERRORS - RESTART AT 200.
DEPRESS CONTINUE TO CONTINUE TEST

7. RESTRICTIONS

7.1 STARTING RESTRICTION

NONE

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161                                7.2     OPERATIONAL RESTRICTION
162
163                                        NONE
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8. MISCELLANEOUS

IF A HALT OCCURES IN THE TRAP OR INTERRUPT VECTOR AREA,
REGISTER SIX SHOULD BE EXAMINED TO DETERMINE ITS CONTENTS,
THEN USE REGISTER SIX CONTENTS AS AN ADDRESS TO DETERMINE
THE LOCATION THE PROGRAM WAS AT, WHEN THE INTERRUPT OR
TRAP OCCURRED. (MEMORY AS SPECIFIED BY R6 CONTAINS THE PC OF THE
INSTRUCTION FOLLOWING THE INSTRUCTION WHERE THE TRAP OCCURED)

8.1 EXECUTION TIME

TIME BETWEEN BELLS

FOR TAPE 1 5   MINUTES
FOR TAPE 2 2.5 MINUTES
FOR TAPE 3 3   MINUTES
FOR TAPE 4 6   MINUTES
FOR TAPE 5 5   MINUTES
FOR TAPE 6 6   MINUTES
FOR TAPE 7 5   MINUTES
FOR TAPE 8 6   MINUTES
FOR TAPE 9 3   MINUTES
FOR TAPE 10 4   MINUTES
FOR TAPE 11 2   MINUTES
FOR TAPE 12 4   MINUTES

9. PROGRAM DESCRIPTION

TEST 1 THIS IS A TEST OF THE UNCONDITIONAL BRANCH
INSTRUCTION, IT PROVES THAT A LONG PROGRAM
CAN BE LOADED AND THE INSTRUCTIONS CAN BE
EXECUTED THROUGHOUT MEMORY.

TEST 2 THIS IS A CONDITIONAL BRANCH TEST USING ALL
OF THE CONDITIONAL BRANCH INSTRUCTIONS. IT
TESTS THAT ALL COMBINATIONS OF CONDITION CODES
ARE RESPONDED TO CORRECTLY. (THE CONDITION
CODES ARE MANIPULATED WITH THE MICRO-PROGRAM
OPERATIONS.)

TEST 3 THIS IS A TEST OF THE UNARY INSTRUCTIONS AND
THEIR EFFECTS UPON THE CONDITION CODES ONLY.
MOSTLY REGISTER OPERATIONS.

TEST 4 THIS IS A COMBINED USE OF UNARY AND BINARY
INSTRUCTIONS TESTING THE RESULTS AND THE
CONDITION CODES.

TEST 5 THIS TEST ROTATE AND SHIFT INSTRUCTION, BOTH
THE REGISTERS AND MEMORY LOCATIONS, WORD AND
BYTE, ARE TESTED.

TEST 6 THIS IS A TEST OF THE COMPARE INSTRUCTIONS FOR

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                                EQUALITY. ALL CONDITIONAL BRANCHES THAT WILL
                                BRANCH ON ANY FORM OF EQUALITY ARE ALSO TESTED.
                                BOTH WORD AND BYTE OPERATIONS ARE USED.
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(9 CONT'D)

TEST 7 COMPARE NOT. THIS IS A TEST OF THE COMPARE INSTRUCTIONS WHERE NO VALUES ARE EQUAL. HERE BRANCHES FOR NOT EQUAL, GREATER THAN AND LESS THAN, ETC., ARE TESTED.

TEST 8 CHECKS THE MOVE INSTRUCTION BOTH TO MEMORY AND REGISTERS.

TEST 9 CHECK THE BIS, BIC AND BIT INSTRUCTION BOTH TO MEMORY AND TO REGISTERS.

TEST 10 TESTS THE ADD INSTRUCTION.

TEST 11 TESTS THE SUBTRACT INSTRUCTION.

TEST 12 TEST OF THE JUMP INSTRUCTION IN MOST MODES.

NOTE THAT STACK OPERATION AND INSTRUCTIONS THAT USE THEM ARE NOT TESTED IN THIS GROUP OF TEST.

10. LISTING

11. FLOW CHART(S)

```
                                        %

                                        ;TEST 12
                                        ;COPYRIGHT 1970, DIGITAL EQUIPMENT CORP., MAYNARD, MASS.
                                        ;JMP TEST OF 4K OF MEMORY
                                        ; %0 USED TO COMPARE EXPECTED PC VALUE
                                        ; %1 USED FOR JMP -(1)
                                        ; %2 SHOULD CONTAIN AN OFFSET OF 10
                                        ; %3 SHOULD CONTAIN AN OFFSET OF 4
                                        ; %4 SHOULD CONTAIN AN OFFSET OF 16
                                        ; %5 SHOULD CONTAIN AN OFFSET OF 14
000000                                  HLT=HALT
000010                                  A=10    ;VALUE INDEXD TO REGISTER ZERO
000000                                  .=0
000002                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000006                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000012                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000016                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000022                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000026                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000032                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000036                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000042                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000046                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000052                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000056                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000062                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000066                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000072                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000076                                  .+2                     ;TRAP ENTRANCE
000000                                  HALT                    ;TRAPPED TO PREVIOUS ADDRESS
000200                                  .=200
000200  012700  000226          BEGIN:  MOV     #START+6,%0
000204  012703  000004                  MOV     #4,%3
000210  012704  000016                  MOV     #16,%4
000214  012702  000010                  MOV     #10,%2
000220  012705  000014          START:  MOV     #14,%5
000224  000110                  JMP     @%0
000226  060300                  ADD     %3,%0
000230  020700                  CMP     %7,%0           ;%0 POINTS HERE
000232  001401                  BEQ     .+4
```

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   308  000234  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   309  000236  000167  000000            JMP     .+4
   310  000242  060500                    ADD     %5,%0
   311  000244  020700                    CMP     %7,%0           ;%0 POINTS HERE
   312  000246  001401                    BEQ     .+4
   313  000250  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   314
   315  000252  000137  000256            JMP     @#.+4
   316  000256  060500                    ADD     %5,%0
   317  000260  020700                    CMP     %7,%0           ;%0 POINTS HERE
   318  000262  001401                    BEQ     .+4
   319  000264  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   320  000266  060400                    ADD     %4,%0
   321
   322
   323  000270  000177  000000            JMP     @.+4
   324  000274  000276                    .+2
   325  000276  020700                    CMP     %7,%0           ;%0 POINTS HERE
   326  000300  001401                    BEQ     .+4
   327  000302  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   328
   329  000304  000160  000010            JMP     A(0)
   330  000310  060500                    ADD     %5,%0
   331  000312  020700                    CMP     %7,%0           ;%0 POINTS HERE
   332  000314  001401                    BEQ     .+4
   333  000316  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   334
   335  000320  060200                    ADD     %2,%0
   336  000322  000110                    JMP     @%0
   337  000324  060300                    ADD     %3,%0
   338  000326  020700                    CMP     %7,%0           ;%0 POINTS HERE
   339  000330  001401                    BEQ     .+4
   340  000332  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   341  000334  000167  000000            JMP     .+4
   342  000340  060500                    ADD     %5,%0
   343  000342  020700                    CMP     %7,%0           ;%0 POINTS HERE
   344  000344  001401                    BEQ     .+4
   345  000346  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   346
   347  000350  000137  000354            JMP     @#.+4
   348  000354  060500                    ADD     %5,%0
   349  000356  020700                    CMP     %7,%0           ;%0 POINTS HERE
   350  000360  001401                    BEQ     .+4
   351  000362  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   352  000364  060400                    ADD     %4,%0
   353
   354
   355  000366  000177  000000            JMP     @.+4
   356  000372  000374                    .+2
   357  000374  020700                    CMP     %7,%0           ;%0 POINTS HERE
   358  000376  001401                    BEQ     .+4
   359  000400  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   360
   361  000402  000160  000010            JMP     A(0)
   362  000406  060500                    ADD     %5,%0
   363  000410  020700                    CMP     %7,%0           ;%0 POINTS HERE
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   364  000412  001401                    BEQ     .+4
   365  000414  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   366
   367  000416  060200                    ADD     %2,%0
   368  000420  000110                    JMP     @%0
   369  000422  060300                    ADD     %3,%0
   370  000424  020700                    CMP     %7,%0           ;%0 POINTS HERE
   371  000426  001401                    BEQ     .+4
   372  000430  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   373  000432  000167  000000            JMP     .+4
   374  000436  060500                    ADD     %5,%0
   375  000440  020700                    CMP     %7,%0           ;%0 POINTS HERE
   376  000442  001401                    BEQ     .+4
   377  000444  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   378
   379  000446  000137  000452            JMP     @#.+4
   380  000452  060500                    ADD     %5,%0
   381  000454  020700                    CMP     %7,%0           ;%0 POINTS HERE
   382  000456  001401                    BEQ     .+4
   383  000460  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   384  000462  060400                    ADD     %4,%0
   385
   386
   387  000464  000177  000000            JMP     @.+4
   388  000470  000472                    .+2
   389  000472  020700                    CMP     %7,%0           ;%0 POINTS HERE
   390  000474  001401                    BEQ     .+4
   391  000476  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   392
   393  000500  000160  000010            JMP     A(0)
   394  000504  060500                    ADD     %5,%0
   395  000506  020700                    CMP     %7,%0           ;%0 POINTS HERE
   396  000510  001401                    BEQ     .+4
   397  000512  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   398
   399  000514  060200                    ADD     %2,%0
   400  000516  000110                    JMP     @%0
   401  000520  060300                    ADD     %3,%0
   402  000522  020700                    CMP     %7,%0           ;%0 POINTS HERE
   403  000524  001401                    BEQ     .+4
   404  000526  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   405  000530  000167  000000            JMP     .+4
   406  000534  060500                    ADD     %5,%0
   407  000536  020700                    CMP     %7,%0           ;%0 POINTS HERE
   408  000540  001401                    BEQ     .+4
   409  000542  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   410
   411  000544  000137  000550            JMP     @#.+4
   412  000550  060500                    ADD     %5,%0
   413  000552  020700                    CMP     %7,%0           ;%0 POINTS HERE
   414  000554  001401                    BEQ     .+4
   415  000556  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   416  000560  060400                    ADD     %4,%0
   417
   418
   419  000562  000177  000000            JMP     @.+4
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  420  000566  000570                        .+2
  421  000570  020700                CMP     %7,%0           ;%0 POINTS HERE
  422  000572  001401                BEQ     .+4
  423  000574  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
  424
  425  000576  000160  000010        JMP     A(0)
  426  000602  060500                ADD     %5,%0
  427  000604  020700                CMP     %7,%0           ;%0 POINTS HERE
  428  000606  001401                BEQ     .+4
  429  000610  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  430
  431  000612  060200                ADD     %2,%0
  432  000614  000110                JMP     @%0
  433  000616  060300                ADD     %3,%0
  434  000620  020700                CMP     %7,%0           ;%0 POINTS HERE
  435  000622  001401                BEQ     .+4
  436  000624  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  437  000626  000167  000000        JMP     .+4
  438  000632  060500                ADD     %5,%0
  439  000634  020700                CMP     %7,%0           ;%0 POINTS HERE
  440  000636  001401                BEQ     .+4
  441  000640  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  442
  443  000642  000137  000646        JMP     @#.+4
  444  000646  060500                ADD     %5,%0
  445  000650  020700                CMP     %7,%0           ;%0 POINTS HERE
  446  000652  001401                BEQ     .+4
  447  000654  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  448  000656  060400                ADD     %4,%0
  449
  450
  451  000660  000177  000000        JMP     @.+4
  452  000664  000666                .+2
  453  000666  020700                CMP     %7,%0           ;%0 POINTS HERE
  454  000670  001401                BEQ     .+4
  455  000672  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
  456
  457  000674  000160  000010        JMP     A(0)
  458  000700  060500                ADD     %5,%0
  459  000702  020700                CMP     %7,%0           ;%0 POINTS HERE
  460  000704  001401                BEQ     .+4
  461  000706  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  462
  463  000710  060200                ADD     %2,%0
  464  000712  000110                JMP     @%0
  465  000714  060300                ADD     %3,%0
  466  000716  020700                CMP     %7,%0           ;%0 POINTS HERE
  467  000720  001401                BEQ     .+4
  468  000722  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  469  000724  000167  000000        JMP     .+4
  470  000730  060500                ADD     %5,%0
  471  000732  020700                CMP     %7,%0           ;%0 POINTS HERE
  472  000734  001401                BEQ     .+4
  473  000736  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  474
  475  000740  000137  000744        JMP     @#.+4
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  476  000744  060500                    ADD     %5,%0
  477  000746  020700                    CMP     %7,%0          ;%0 POINTS HERE
  478  000750  001401                    BEQ     .+4
  479  000752  000000                    HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
  480  000754  060400                    ADD     %4,%0
  481
  482
  483  000756  000177  000000            JMP     @.+4
  484  000762  000764                    .+2
  485  000764  020700                    CMP     %7,%0          ;%0 POINTS HERE
  486  000766  001401                    BEQ     .+4
  487  000770  000000                    HLT                    ;JMP BEFORE VALUE IN REGISTER ZERO BAD
  488
  489  000772  000160  000010            JMP     A(0)
  490  000776  060500                    ADD     %5,%0
  491  001000  020700                    CMP     %7,%0          ;%0 POINTS HERE
  492  001002  001401                    BEQ     .+4
  493  001004  000000                    HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
  494
  495  001006  060200                    ADD     %2,%0
  496  001010  000110                    JMP     @%0
  497  001012  060300                    ADD     %3,%0
  498  001014  020700                    CMP     %7,%0          ;%0 POINTS HERE
  499  001016  001401                    BEQ     .+4
  500  001020  000000                    HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
  501  001022  000167  000000            JMP     .+4
  502  001026  060500                    ADD     %5,%0
  503  001030  020700                    CMP     %7,%0          ;%0 POINTS HERE
  504  001032  001401                    BEQ     .+4
  505  001034  000000                    HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
  506
  507  001036  000137  001042            JMP     @#.+4
  508  001042  060500                    ADD     %5,%0
  509  001044  020700                    CMP     %7,%0          ;%0 POINTS HERE
  510  001046  001401                    BEQ     .+4
  511  001050  000000                    HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
  512  001052  060400                    ADD     %4,%0
  513
  514
  515  001054  000177  000000            JMP     @.+4
  516  001060  001062                    .+2
  517  001062  020700                    CMP     %7,%0          ;%0 POINTS HERE
  518  001064  001401                    BEQ     .+4
  519  001066  000000                    HLT                    ;JMP BEFORE VALUE IN REGISTER ZERO BAD
  520
  521  001070  000160  000010            JMP     A(0)
  522  001074  060500                    ADD     %5,%0
  523  001076  020700                    CMP     %7,%0          ;%0 POINTS HERE
  524  001100  001401                    BEQ     .+4
  525  001102  000000                    HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
  526
  527  001104  060200                    ADD     %2,%0
  528  001106  000110                    JMP     @%0
  529  001110  060300                    ADD     %3,%0
  530  001112  020700                    CMP     %7,%0          ;%0 POINTS HERE
  531  001114  001401                    BEQ     .+4
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   532  001116  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   533  001120  000167  000000            JMP     .+4
   534  001124  060500                    ADD     %5,%0
   535  001126  020700                    CMP     %7,%0           ;%0 POINTS HERE
   536  001130  001401                    BEQ     .+4
   537  001132  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   538
   539  001134  000137  001140            JMP     @#.+4
   540  001140  060500                    ADD     %5,%0
   541  001142  020700                    CMP     %7,%0           ;%0 POINTS HERE
   542  001144  001401                    BEQ     .+4
   543  001146  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   544  001150  060400                    ADD     %4,%0
   545
   546
   547  001152  000177  000000            JMP     @.+4
   548  001156  001160                    .+2
   549  001160  020700                    CMP     %7,%0           ;%0 POINTS HERE
   550  001162  001401                    BEQ     .+4
   551  001164  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   552
   553  001166  000160  000010            JMP     A(0)
   554  001172  060500                    ADD     %5,%0
   555  001174  020700                    CMP     %7,%0           ;%0 POINTS HERE
   556  001176  001401                    BEQ     .+4
   557  001200  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   558
   559  001202  060200                    ADD     %2,%0
   560  001204  000110                    JMP     @%0
   561  001206  060300                    ADD     %3,%0
   562  001210  020700                    CMP     %7,%0           ;%0 POINTS HERE
   563  001212  001401                    BEQ     .+4
   564  001214  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   565  001216  000167  000000            JMP     .+4
   566  001222  060500                    ADD     %5,%0
   567  001224  020700                    CMP     %7,%0           ;%0 POINTS HERE
   568  001226  001401                    BEQ     .+4
   569  001230  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   570
   571  001232  000137  001236            JMP     @#.+4
   572  001236  060500                    ADD     %5,%0
   573  001240  020700                    CMP     %7,%0           ;%0 POINTS HERE
   574  001242  001401                    BEQ     .+4
   575  001244  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   576  001246  060400                    ADD     %4,%0
   577
   578
   579  001250  000177  000000            JMP     @.+4
   580  001254  001256                    .+2
   581  001256  020700                    CMP     %7,%0           ;%0 POINTS HERE
   582  001260  001401                    BEQ     .+4
   583  001262  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   584
   585  001264  000160  000010            JMP     A(0)
   586  001270  060500                    ADD     %5,%0
   587  001272  020700                    CMP     %7,%0           ;%0 POINTS HERE
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   588  001274  001401                    BEQ     .+4
   589  001276  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   590
   591  001300  060200                    ADD     %2,%0
   592  001302  000110                    JMP     @%0
   593  001304  060300                    ADD     %3,%0
   594  001306  020700                    CMP     %7,%0           ;%0 POINTS HERE
   595  001310  001401                    BEQ     .+4
   596  001312  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   597  001314  000167  000000            JMP     .+4
   598  001320  060500                    ADD     %5,%0
   599  001322  020700                    CMP     %7,%0           ;%0 POINTS HERE
   600  001324  001401                    BEQ     .+4
   601  001326  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   602
   603  001330  000137  001334            JMP     @#.+4
   604  001334  060500                    ADD     %5,%0
   605  001336  020700                    CMP     %7,%0           ;%0 POINTS HERE
   606  001340  001401                    BEQ     .+4
   607  001342  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   608  001344  060400                    ADD     %4,%0
   509
   610
   611  001346  000177  000000            JMP     @.+4
   612  001352  001354                    .+2
   613  001354  020700                    CMP     %7,%0           ;%0 POINTS HERE
   614  001356  001401                    BEQ     .+4
   615  001360  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   616
   617  001362  000160  000010            JMP     A(0)
   618  001366  060500                    ADD     %5,%0
   619  001370  020700                    CMP     %7,%0           ;%0 POINTS HERE
   620  001372  001401                    BEQ     .+4
   621  001374  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   622
   623  001376  060200                    ADD     %2,%0
   624  001400  000110                    JMP     @%0
   625  001402  060300                    ADD     %3,%0
   626  001404  020700                    CMP     %7,%0           ;%0 POINTS HERE
   627  001406  001401                    BEQ     .+4
   628  001410  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   629  001412  000167  000000            JMP     .+4
   630  001416  060500                    ADD     %5,%0
   631  001420  020700                    CMP     %7,%0           ;%0 POINTS HERE
   632  001422  001401                    BEQ     .+4
   633  001424  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   634
   635  001426  000137  001432            JMP     @#.+4
   636  001432  060500                    ADD     %5,%0
   637  001434  020700                    CMP     %7,%0           ;%0 POINTS HERE
   638  001436  001401                    BEQ     .+4
   639  001440  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   640  001442  060400                    ADD     %4,%0
   641
   642
   643  001444  000177  000000            JMP     @.+4
```

```
644  001450  001452                    .+2
645  001452  020700                    CMP     %7,%0           ;%0 POINTS HERE
646  001454  001401                    BEQ     .+4
647  001456  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
648
649  001460  000160  000010            JMP     A(0)
650  001464  060500                    ADD     %5,%0
651  001466  020700                    CMP     %7,%0           ;%0 POINTS HERE
652  001470  001401                    BEQ     .+4
653  001472  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
654
655  001474  060200                    ADD     %2,%0
656  001476  000110                    JMP     @%0
657  001500  060300                    ADD     %3,%0
658  001502  020700                    CMP     %7,%0           ;%0 POINTS HERE
659  001504  001401                    BEQ     .+4
660  001506  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
661  001510  000167  000000            JMP     .+4
662  001514  060500                    ADD     %5,%0
663  001516  020700                    CMP     %7,%0           ;%0 POINTS HERE
664  001520  001401                    BEQ     .+4
665  001522  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
666
667  001524  000137  001530            JMP     @#.+4
668  001530  060500                    ADD     %5,%0
669  001532  020700                    CMP     %7,%0           ;%0 POINTS HERE
670  001534  001401                    BEQ     .+4
671  001536  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
672  001540  060400                    ADD     %4,%0
673
674
675  001542  000177  000000            JMP     @.+4
676  001546  001550                    .+2
677  001550  020700                    CMP     %7,%0           ;%0 POINTS HERE
678  001552  001401                    BEQ     .+4
679  001554  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
680
681  001556  000160  000010            JMP     A(0)
682  001562  060500                    ADD     %5,%0
683  001564  020700                    CMP     %7,%0           ;%0 POINTS HERE
684  001566  001401                    BEQ     .+4
685  001570  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
686
687  001572  060200                    ADD     %2,%0
688  001574  000110                    JMP     @%0
689  001576  060300                    ADD     %3,%0
690  001600  020700                    CMP     %7,%0           ;%0 POINTS HERE
691  001602  001401                    BEQ     .+4
692  001604  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
693  001606  000167  000000            JMP     .+4
694  001612  060500                    ADD     %5,%0
695  001614  020700                    CMP     %7,%0           ;%0 POINTS HERE
696  001616  001401                    BEQ     .+4
697  001620  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
698
699  001622  000137  001626            JMP     @#.+4
```

```
   700  001626  060500                          ADD     %5,%0
   701  001630  020700                          CMP     %7,%0          ;%0 POINTS HERE
   702  001632  001401                          BEQ     .+4
   703  001634  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   704  001636  060400                          ADD     %4,%0
   705
   706
   707  001640  000177  000000                  JMP     @.+4
   708  001644  001646                          .+2
   709  001646  020700                          CMP     %7,%0          ;%0 POINTS HERE
   710  001650  001401                          BEQ     .+4
   711  001652  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   712
   713  001654  000160  000010                  JMP     A(0)
   714  001660  060500                          ADD     %5,%0
   715  001662  020700                          CMP     %7,%0          ;%0 POINTS HERE
   716  001664  001401                          BEQ     .+4
   717  001666  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   718
   719  001670  060200                          ADD     %2,%0
   720  001672  000110                          JMP     @%0
   721  001674  060300                          ADD     %3,%0
   722  001676  020700                          CMP     %7,%0          ;%0 POINTS HERE
   723  001700  001401                          BEQ     .+4
   724  001702  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   725  001704  000167  000000                  JMP     .+4
   726  001710  060500                          ADD     %5,%0
   727  001712  020700                          CMP     %7,%0          ;%0 POINTS HERE
   728  001714  001401                          BEQ     .+4
   729  001716  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   730
   731  001720  000137  001724                  JMP     @#.+4
   732  001724  060500                          ADD     %5,%0
   733  001726  020700                          CMP     %7,%0          ;%0 POINTS HERE
   734  001730  001401                          BEQ     .+4
   735  001732  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   736  001734  060400                          ADD     %4,%0
   737
   738
   739  001736  000177  000000                  JMP     @.+4
   740  001742  001744                          .+2
   741  001744  020700                          CMP     %7,%0          ;%0 POINTS HERE
   742  001746  001401                          BEQ     .+4
   743  001750  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   744
   745  001752  000160  000010                  JMP     A(0)
   746  001756  060500                          ADD     %5,%0
   747  001760  020700                          CMP     %7,%0          ;%0 POINTS HERE
   748  001762  001401                          BEQ     .+4
   749  001764  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   750
   751  001766  060200                          ADD     %2,%0
   752  001770  000110                          JMP     @%0
   753  001772  060300                          ADD     %3,%0
   754  001774  020700                          CMP     %7,%0          ;%0 POINTS HERE
   755  001776  001401                          BEQ     .+4
```

```
   756  002000  000000                    HLT
   757  002002  000167  000000            JMP     .+4
   758  002006  060500                    ADD     %5,%0
   759  002010  020700                    CMP     %7,%0       ;%0 POINTS HERE
   760  002012  001401                    BEQ     .+4
   761  002014  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
   762
   763  002016  000137  002022            JMP     @#.+4
   764  002022  060500                    ADD     %5,%0
   765  002024  020700                    CMP     %7,%0       ;%0 POINTS HERE
   766  002026  001401                    BEQ     .+4
   767  002030  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
   768  002032  060400                    ADD     %4,%0
   769
   770
   771  002034  000177  000000            JMP     @.+4
   772  002040  002042                    .+2
   773  002042  020700                    CMP     %7,%0       ;%0 POINTS HERE
   774  002044  001401                    BEQ     .+4
   775  002046  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   776
   777  002050  000160  000010            JMP     A(0)
   778  002054  060500                    ADD     %5,%0
   779  002056  020700                    CMP     %7,%0       ;%0 POINTS HERE
   780  002060  001401                    BEQ     .+4
   781  002062  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
   782
   783  002064  060200                    ADD     %2,%0
   784  002066  000110                    JMP     @%0
   785  002070  060300                    ADD     %3,%0
   786  002072  020700                    CMP     %7,%0       ;%0 POINTS HERE
   787  002074  001401                    BEQ     .+4
   788  002076  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
   789  002100  000167  000000            JMP     .+4
   790  002104  060500                    ADD     %5,%0
   791  002106  020700                    CMP     %7,%0       ;%0 POINTS HERE
   792  002110  001401                    BEQ     .+4
   793  002112  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
   794
   795  002114  000137  002120            JMP     @#.+4
   796  002120  060500                    ADD     %5,%0
   797  002122  020700                    CMP     %7,%0       ;%0 POINTS HERE
   798  002124  001401                    BEQ     .+4
   799  002126  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
   800  002130  060400                    ADD     %4,%0
   801
   802
   803  002132  000177  000000            JMP     @.+4
   804  002136  002140                    .+2
   805  002140  020700                    CMP     %7,%0       ;%0 POINTS HERE
   806  002142  001401                    BEQ     .+4
   807  002144  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   808
   809  002146  000160  000010            JMP     A(0)
   810  002152  060500                    ADD     %5,%0
   811  002154  020700                    CMP     %7,%0       ;%0 POINTS HERE
```

```
   812  002156  001401                    BEQ     .+4
   813  002160  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   814
   815  002162  060200                    ADD     %2,%0
   816  002164  000110                    JMP     @%0
   817  002166  060300                    ADD     %3,%0
   818  002170  020700                    CMP     %7,%0           ;%0 POINTS HERE
   819  002172  001401                    BEQ     .+4
   820  002174  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   821  002176  000167  000000            JMP     .+4
   822  002202  060500                    ADD     %5,%0
   823  002204  020700                    CMP     %7,%0           ;%0 POINTS HERE
   824  002206  001401                    BEQ     .+4
   825  002210  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   826
   827  002212  000137  002216            JMP     @#.+4
   828  002216  060500                    ADD     %5,%0
   829  002220  020700                    CMP     %7,%0           ;%0 POINTS HERE
   830  002222  001401                    BEQ     .+4
   831  002224  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   832  002226  060400                    ADD     %4,%0
   833
   834
   835  002230  000177  000000            JMP     @.+4
   836  002234  002236                    .+2
   837  002236  020700                    CMP     %7,%0           ;%0 POINTS HERE
   838  002240  001401                    BEQ     .+4
   839  002242  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   840
   841  002244  000160  000010            JMP     A(0)
   842  002250  060500                    ADD     %5,%0
   843  002252  020700                    CMP     %7,%0           ;%0 POINTS HERE
   844  002254  001401                    BEQ     .+4
   845  002256  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   846
   847  002260  060200                    ADD     %2,%0
   848  002262  000110                    JMP     @%0
   849  002264  060300                    ADD     %3,%0
   850  002266  020700                    CMP     %7,%0           ;%0 POINTS HERE
   851  002270  001401                    BEQ     .+4
   852  002272  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   853  002274  000167  000000            JMP     .+4
   854  002300  060500                    ADD     %5,%0
   855  002302  020700                    CMP     %7,%0           ;%0 POINTS HERE
   856  002304  001401                    BEQ     .+4
   857  002306  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   858
   859  002310  000137  002314            JMP     @#.+4
   860  002314  060500                    ADD     %5,%0
   861  002316  020700                    CMP     %7,%0           ;%0 POINTS HERE
   862  002320  001401                    BEQ     .+4
   863  002322  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
   864  002324  060400                    ADD     %4,%0
   865
   866
   867  002326  000177  000000            JMP     @.+4
```

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  868  002332  002334                  .+2
  869  002334  020700                  CMP     %7,%0           ;%0 POINTS HERE
  870  002336  001401                  BEQ     .+4
  871  002340  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
  872
  873  002342  000160  000010          JMP     A(0)
  874  002346  060500                  ADD     %5,%0
  875  002350  020700                  CMP     %7,%0           ;%0 POINTS HERE
  876  002352  001401                  BEQ     .+4
  877  002354  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  878
  879  002356  060200                  ADD     %2,%0
  880  002360  000110                  JMP     @%0
  881  002362  060300                  ADD     %3,%0
  882  002364  020700                  CMP     %7,%0           ;%0 POINTS HERE
  883  002366  001401                  BEQ     .+4
  884  002370  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  885  002372  000167  000000          JMP     .+4
  886  002376  060500                  ADD     %5,%0
  887  002400  020700                  CMP     %7,%0           ;%0 POINTS HERE
  888  002402  001401                  BEQ     .+4
  889  002404  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  890
  891  002406  000137  002412          JMP     @#.+4
  892  002412  060500                  ADD     %5,%0
  893  002414  020700                  CMP     %7,%0           ;%0 POINTS HERE
  894  002416  001401                  BEQ     .+4
  895  002420  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  896  002422  060400                  ADD     %4,%0
  897
  898
  899  002424  000177  000000          JMP     @.+4
  900  002430  002432                  .+2
  901  002432  020700                  CMP     %7,%0           ;%0 POINTS HERE
  902  002434  001401                  BEQ     .+4
  903  002436  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
  904
  905  002440  000160  000010          JMP     A(0)
  906  002444  060500                  ADD     %5,%0
  907  002446  020700                  CMP     %7,%0           ;%0 POINTS HERE
  908  002450  001401                  BEQ     .+4
  909  002452  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  910
  911  002454  060200                  ADD     %2,%0
  912  002456  000110                  JMP     @%0
  913  002460  060300                  ADD     %3,%0
  914  002462  020700                  CMP     %7,%0           ;%0 POINTS HERE
  915  002464  001401                  BEQ     .+4
  916  002466  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  917  002470  000167  000000          JMP     .+4
  918  002474  060500                  ADD     %5,%0
  919  002476  020700                  CMP     %7,%0           ;%0 POINTS HERE
  920  002500  001401                  BEQ     .+4
  921  002502  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  922
  923  002504  000137  002510          JMP     @#.+4
```

```
   924  002510  060500                          ADD     %5,%0
   925  002512  020700                          CMP     %7,%0          ;%0 POINTS HERE
   926  002514  001401                          BEQ     .+4
   927  002516  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   928  002520  060400                          ADD     %4,%0
   929
   930
   931  002522  000177  000000                  JMP     @.+4
   932  002526  002530                          .+2
   933  002530  020700                          CMP     %7,%0          ;%0 POINTS HERE
   934  002532  001401                          BEQ     .+4
   935  002534  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   936
   937  002536  000160  000010                  JMP     A(0)
   938  002542  060500                          ADD     %5,%0
   939  002544  020700                          CMP     %7,%0          ;%0 POINTS HERE
   940  002546  001401                          BEQ     .+4
   941  002550  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   942
   943  002552  060200                          ADD     %2,%0
   944  002554  000110                          JMP     @%0
   945  002556  060300                          ADD     %3,%0
   946  002560  020700                          CMP     %7,%0          ;%0 POINTS HERE
   947  002562  001401                          BEQ     .+4
   948  002564  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   949  002566  000167  000000                  JMP     .+4
   950  002572  060500                          ADD     %5,%0
   951  002574  020700                          CMP     %7,%0          ;%0 POINTS HERE
   952  002576  001401                          BEQ     .+4
   953  002600  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   954
   955  002602  000137  002606                  JMP     @#.+4
   956  002606  060500                          ADD     %5,%0
   957  002610  020700                          CMP     %7,%0          ;%0 POINTS HERE
   958  002612  001401                          BEQ     .+4
   959  002614  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   960  002616  060400                          ADD     %4,%0
   961
   962
   963  002620  000177  000000                  JMP     @.+4
   964  002624  002626                          .+2
   965  002626  020700                          CMP     %7,%0          ;%0 POINTS HERE
   966  002630  001401                          BEQ     .+4
   967  002632  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER ZERO BAD
   968
   969  002634  000160  000010                  JMP     A(0)
   970  002640  060500                          ADD     %5,%0
   971  002642  020700                          CMP     %7,%0          ;%0 POINTS HERE
   972  002644  001401                          BEQ     .+4
   973  002646  000000                          HLT                    ;JMP BEFORE VALUE IN REGISTER 0 BAD
   974
   975  002650  060200                          ADD     %2,%0
   976  002652  000110                          JMP     @%0
   977  002654  060300                          ADD     %3,%0
   978  002656  020700                          CMP     %7,%0          ;%0 POINTS HERE
   979  002660  001401                          BEQ     .+4
```

```
  980  002662  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  981  002664  000167  000000            JMP     .+4
  982  002670  060500                    ADD     %5,%0
  983  002672  020700                    CMP     %7,%0           ;%0 POINTS HERE
  984  002674  001401                    BEQ     .+4
  985  002676  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  986
  987  002700  000137  002704            JMP     @#.+4
  988  002704  060500                    ADD     %5,%0
  989  002706  020700                    CMP     %7,%0           ;%0 POINTS HERE
  990  002710  001401                    BEQ     .+4
  991  002712  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
  992  002714  060400                    ADD     %4,%0
  993
  994
  995  002716  000177  000000            JMP     @.+4
  996  002722  002724                    .+2
  997  002724  020700                    CMP     %7,%0           ;%0 POINTS HERE
  998  002726  001401                    BEQ     .+4
  999  002730  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
 1000
 1001  002732  000160  000010            JMP     A(0)
 1002  002736  060500                    ADD     %5,%0
 1003  002740  020700                    CMP     %7,%0           ;%0 POINTS HERE
 1004  002742  001401                    BEQ     .+4
 1005  002744  000003                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1006
 1007  002746  060200                    ADD     %2,%0
 1008  002750  000110                    JMP     @%0
 1009  002752  060300                    ADD     %3,%0
 1010  002754  020700                    CMP     %7,%0           ;%0 POINTS HERE
 1011  002756  001401                    BEQ     .+4
 1012  002760  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1013  002762  000167  000000            JMP     .+4
 1014  002766  060500                    ADD     %5,%0
 1015  002770  020700                    CMP     %7,%0           ;%0 POINTS HERE
 1016  002772  001401                    BEQ     .+4
 1017  002774  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1018
 1019  002776  000137  003002            JMP     @#.+4
 1020  003002  060500                    ADD     %5,%0
 1021  003004  020700                    CMP     %7,%0           ;%0 POINTS HERE
 1022  003006  001401                    BEQ     .+4
 1023  003010  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1024  003012  060400                    ADD     %4,%0
 1025
 1026
 1027  003014  000177  000000            JMP     @.+4
 1028  003020  003022                    .+2
 1029  003022  020700                    CMP     %7,%0           ;%0 POINTS HERE
 1030  003024  001401                    BEQ     .+4
 1031  003026  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
 1032
 1033  003030  000160  000010            JMP     A(0)
 1034  003034  060500                    ADD     %5,%0
 1035  003036  020700                    CMP     %7,%0           ;%0 POINTS HERE
```

```
1036  003040  001401                    BEQ     .+4
1037  003042  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1038
1039  003044  060200                    ADD     %2,%0
1040  003046  000110                    JMP     @%0
1041  003050  060300                    ADD     %3,%0
1042  003052  020700                    CMP     %7,%0           ;%0 POINTS HERE
1043  003054  001401                    BEQ     .+4
1044  003056  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1045  003060  000167  000000            JMP     .+4
1046  003064  060500                    ADD     %5,%0
1047  003066  020700                    CMP     %7,%0           ;%0 POINTS HERE
1048  003070  001401                    BEQ     .+4
1049  003072  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1050
1051  003074  000137  003100            JMP     @#.+4
1052  003100  060500                    ADD     %5,%0
1053  003102  020700                    CMP     %7,%0           ;%0 POINTS HERE
1054  003104  001401                    BEQ     .+4
1055  003106  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1056  003110  060400                    ADD     %4,%0
1057
1058
1059  003112  000177  000000            JMP     @.+4
1060  003116  003120                    .+2
1061  003120  020700                    CMP     %7,%0           ;%0 POINTS HERE
1062  003122  001401                    BEQ     .+4
1063  003124  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1064
1065  003126  000160  000010            JMP     A(0)
1066  003132  060500                    ADD     %5,%0
1067  003134  020700                    CMP     %7,%0           ;%0 POINTS HERE
1068  003136  001401                    BEQ     .+4
1069  003140  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1070
1071  003142  060200                    ADD     %2,%0
1072  003144  000110                    JMP     @%0
1073  003146  060300                    ADD     %3,%0
1074  003150  020700                    CMP     %7,%0           ;%0 POINTS HERE
1075  003152  001401                    BEQ     .+4
1076  003154  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1077  003156  000167  000000            JMP     .+4
1078  003162  060500                    ADD     %5,%0
1079  003164  020700                    CMP     %7,%0           ;%0 POINTS HERE
1080  003166  001401                    BEQ     .+4
1081  003170  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1082
1083  003172  000137  003176            JMP     @#.+4
1084  003176  060500                    ADD     %5,%0
1085  003200  020700                    CMP     %7,%0           ;%0 POINTS HERE
1086  003202  001401                    BEQ     .+4
1087  003204  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1088  003206  060400                    ADD     %4,%0
1089
1090
1091  003210  000177  000000            JMP     @.+4
```

```
1092  003214  003216                    .+2
1093  003216  020700                    CMP     %7,%0           ;%0 POINTS HERE
1094  003220  001401                    BEQ     .+4
1095  003222  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1096
1097  003224  000160  000010            JMP     A(0)
1098  003230  060500                    ADD     %5,%0
1099  003232  020700                    CMP     %7,%0           ;%0 POINTS HERE
1100  003234  001401                    BEQ     .+4
1101  003236  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1102
1103  003240  060200                    ADD     %2,%0
1104  003242  000110                    JMP     @%0
1105  003244  060300                    ADD     %3,%0
1106  003246  020700                    CMP     %7,%0           ;%0 POINTS HERE
1107  003250  001401                    BEQ     .+4
1108  003252  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1109  003254  000167  000000            JMP     .+4
1110  003260  060500                    ADD     %5,%0
1111  003262  020700                    CMP     %7,%0           ;%0 POINTS HERE
1112  003264  001401                    BEQ     .+4
1113  003266  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1114
1115  003270  000137  003274            JMP     @#.+4
1116  003274  060500                    ADD     %5,%0
1117  003276  020700                    CMP     %7,%0           ;%0 POINTS HERE
1118  003300  001401                    BEQ     .+4
1119  003302  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1120  003304  060400                    ADD     %4,%0
1121
1122
1123  003306  000177  000000            JMP     @.+4
1124  003312  003314                    .+2
1125  003314  020700                    CMP     %7,%0           ;%0 POINTS HERE
1126  003316  001401                    BEQ     .+4
1127  003320  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1128
1129  003322  000160  000010            JMP     A(0)
1130  003326  060500                    ADD     %5,%0
1131  003330  020700                    CMP     %7,%0           ;%0 POINTS HERE
1132  003332  001401                    BEQ     .+4
1133  003334  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1134
1135  003336  060200                    ADD     %2,%0
1136  003340  000110                    JMP     @%0
1137  003342  060300                    ADD     %3,%0
1138  003344  020700                    CMP     %7,%0           ;%0 POINTS HERE
1139  003346  001401                    BEQ     .+4
1140  003350  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1141  003352  000167  000000            JMP     .+4
1142  003356  060500                    ADD     %5,%0
1143  003360  020700                    CMP     %7,%0           ;%0 POINTS HERE
1144  003362  001401                    BEQ     .+4
1145  003364  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1146
1147  003366  000137  003372            JMP     @#.+4
```

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 1148  003372  060500                        ADD     %5,%0
 1149  003374  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1150  003376  001401                        BEQ     .+4
 1151  003400  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1152  003402  060400                        ADD     %4,%0
 1153
 1154
 1155  003404  000177  000000                JMP     @.+4
 1156  003410  003412                        .+2
 1157  003412  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1158  003414  001401                        BEQ     .+4
 1159  003416  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
 1160
 1161  003420  000160  000010                JMP     A(0)
 1162  003424  060500                        ADD     %5,%0
 1163  003426  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1164  003430  001401                        BEQ     .+4
 1165  003432  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1166
 1167  003434  060200                        ADD     %2,%0
 1168  003436  000110                        JMP     @%0
 1169  003440  060300                        ADD     %3,%0
 1170  003442  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1171  003444  001401                        BEQ     .+4
 1172  003446  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1173  003450  000167  000000                JMP     .+4
 1174  003454  060500                        ADD     %5,%0
 1175  003456  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1176  003460  001401                        BEQ     .+4
 1177  003462  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1178
 1179  003464  000137  003470                JMP     @#.+4
 1180  003470  060500                        ADD     %5,%0
 1181  003472  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1182  003474  001401                        BEQ     .+4
 1183  003476  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1184  003500  060400                        ADD     %4,%0
 1185
 1186
 1187  003502  000177  000000                JMP     @.+4
 1188  003506  003510                        .+2
 1189  003510  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1190  003512  001401                        BEQ     .+4
 1191  003514  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
 1192
 1193  003516  000160  000010                JMP     A(0)
 1194  003522  060500                        ADD     %5,%0
 1195  003524  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1196  003526  001401                        BEQ     .+4
 1197  003530  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 1198
 1199  003532  060200                        ADD     %2,%0
 1200  003534  000110                        JMP     @%0
 1201  003536  060300                        ADD     %3,%0
 1202  003540  020700                        CMP     %7,%0           ;%0 POINTS HERE
 1203  003542  001401                        BEQ     .+4
```

```
1204  003544  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1205  003546  000167  000000            JMP     .+4
1206  003552  060500                    ADD     %5,%0
1207  003554  020700                    CMP     %7,%0           ;%0 POINTS HERE
1208  003556  001401                    BEQ     .+4
1209  003560  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1210
1211  003562  000137  003566            JMP     @#.+4
1212  003566  060500                    ADD     %5,%0
1213  003570  020700                    CMP     %7,%0           ;%0 POINTS HERE
1214  003572  001401                    BEQ     .+4
1215  003574  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1216  003576  060400                    ADD     %4,%0
1217
1218
1219  003600  000177  000000            JMP     @.+4
1220  003604  003606                    .+2
1221  003606  020700                    CMP     %7,%0           ;%0 POINTS HERE
1222  003610  001401                    BEQ     .+4
1223  003612  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1224
1225  003614  000160  000010            JMP     A(0)
1226  003620  060500                    ADD     %5,%0
1227  003622  020700                    CMP     %7,%0           ;%0 POINTS HERE
1228  003624  001401                    BEQ     .+4
1229  003626  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1230
1231  003630  060200                    ADD     %2,%0
1232  003632  000110                    JMP     @%0
1233  003634  060300                    ADD     %3,%0
1234  003636  020700                    CMP     %7,%0           ;%0 POINTS HERE
1235  003640  001401                    BEQ     .+4
1236  003642  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1237  003644  000167  000000            JMP     .+4
1238  003650  060500                    ADD     %5,%0
1239  003652  020700                    CMP     %7,%0           ;%0 POINTS HERE
1240  003654  001401                    BEQ     .+4
1241  003656  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1242
1243  003660  000137  003664            JMP     @#.+4
1244  003664  060500                    ADD     %5,%0
1245  003666  020700                    CMP     %7,%0           ;%0 POINTS HERE
1246  003670  001401                    BEQ     .+4
1247  003672  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1248  003674  060400                    ADD     %4,%0
1249
1250
1251  003676  000177  000000            JMP     @.+4
1252  003702  003704                    .+2
1253  003704  020700                    CMP     %7,%0           ;%0 POINTS HERE
1254  003706  001401                    BEQ     .+4
1255  003710  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1256
1257  003712  000160  000010            JMP     A(0)
1258  003716  060500                    ADD     %5,%0
1259  003720  020700                    CMP     %7,%0           ;%0 POINTS HERE
```

```
1260  003722  001401                    BEQ     .+4
1261  003724  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1262
1263  003726  060200                    ADD     %2,%0
1264  003730  000110                    JMP     @%0
1265  003732  060300                    ADD     %3,%0
1266  003734  020700                    CMP     %7,%0           ;%0 POINTS HERE
1267  003736  001401                    BEQ     .+4
1268  003740  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1269  003742  000167  000000            JMP     .+4
1270  003746  060500                    ADD     %5,%0
1271  003750  020700                    CMP     %7,%0           ;%0 POINTS HERE
1272  003752  001401                    BEQ     .+4
1273  003754  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1274
1275  003756  000137  003762            JMP     @#.+4
1276  003762  060500                    ADD     %5,%0
1277  003764  020700                    CMP     %7,%0           ;%0 POINTS HERE
1278  003766  001401                    BEQ     .+4
1279  003770  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1280  003772  060400                    ADD     %4,%0
1281
1282
1283  003774  000177  000000            JMP     @.+4
1284  004000  004002                    .+2
1285  004002  020700                    CMP     %7,%0           ;%0 POINTS HERE
1286  004004  001401                    BEQ     .+4
1287  004006  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1288
1289  004010  000160  000010            JMP     A(0)
1290  004014  060500                    ADD     %5,%0
1291  004016  020700                    CMP     %7,%0           ;%0 POINTS HERE
1292  004020  001401                    BEQ     .+4
1293  004022  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1294
1295  004024  060200                    ADD     %2,%0
1296  004026  000110                    JMP     @%0
1297  004030  060300                    ADD     %3,%0
1298  004032  020700                    CMP     %7,%0           ;%0 POINTS HERE
1299  004034  001401                    BEQ     .+4
1300  004036  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1301  004040  000167  000000            JMP     .+4
1302  004044  060500                    ADD     %5,%0
1303  004046  020700                    CMP     %7,%0           ;%0 POINTS HERE
1304  004050  001401                    BEQ     .+4
1305  004052  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1306
1307  004054  000137  004060            JMP     @#.+4
1308  004060  060500                    ADD     %5,%0
1309  004062  020700                    CMP     %7,%0           ;%0 POINTS HERE
1310  004064  001401                    BEQ     .+4
1311  004066  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1312  004070  060400                    ADD     %4,%0
1313
1314
1315  004072  000177  000000            JMP     @.+4
```

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1316  004076  004100                  .+2
1317  004100  020700                  CMP     %7,%0           ;%0 POINTS HERE
1318  004102  001401                  BEQ     .+4
1319  004104  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1320
1321  004106  000160  000010          JMP     A(0)
1322  004112  060500                  ADD     %5,%0
1323  004114  020700                  CMP     %7,%0           ;%0 POINTS HERE
1324  004116  001401                  BEQ     .+4
1325  004120  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1326
1327  004122  060200                  ADD     %2,%0
1328  004124  000110                  JMP     @%0
1329  004126  060300                  ADD     %3,%0
1330  004130  020700                  CMP     %7,%0           ;%0 POINTS HERE
1331  004132  001401                  BEQ     .+4
1332  004134  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1333  004136  000167  000000          JMP     .+4
1334  004142  060500                  ADD     %5,%0
1335  004144  020700                  CMP     %7,%0           ;%0 POINTS HERE
1336  004146  001401                  BEQ     .+4
1337  004150  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1338
1339  004152  000137  004156          JMP     @#.+4
1340  004156  060500                  ADD     %5,%0
1341  004160  020700                  CMP     %7,%0           ;%0 POINTS HERE
1342  004162  001401                  BEQ     .+4
1343  004164  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1344  004166  060400                  ADD     %4,%0
1345
1346
1347  004170  000177  000000          JMP     @.+4
1348  004174  004176                  .+2
1349  004176  020700                  CMP     %7,%0           ;%0 POINTS HERE
1350  004200  001401                  BEQ     .+4
1351  004202  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1352
1353  004204  000160  000010          JMP     A(0)
1354  004210  060500                  ADD     %5,%0
1355  004212  020700                  CMP     %7,%0           ;%0 POINTS HERE
1356  004214  001401                  BEQ     .+4
1357  004216  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1358
1359  004220  060200                  ADD     %2,%0
1360  004222  000110                  JMP     @%0
1361  004224  060300                  ADD     %3,%0
1362  004226  020700                  CMP     %7,%0           ;%0 POINTS HERE
1363  004230  001401                  BEQ     .+4
1364  004232  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1365  004234  000167  000000          JMP     .+4
1366  004240  060500                  ADD     %5,%0
1367  004242  020700                  CMP     %7,%0           ;%0 POINTS HERE
1368  004244  001401                  BEQ     .+4
1369  004246  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1370
1371  004250  000137  004254          JMP     @#.+4
```

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1372  004254  060500                    ADD     %5,%0
1373  004256  020700                    CMP     %7,%0           ;%0 POINTS HERE
1374  004260  001401                    BEQ     .+4
1375  004262  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1376  004264  060400                    ADD     %4,%0
1377
1378
1379  004266  000177  000000            JMP     @.+4
1380  004272  004274                    .+2
1381  004274  020700                    CMP     %7,%0           ;%0 POINTS HERE
1382  004276  001401                    BEQ     .+4
1383  004300  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1384
1385  004302  000160  000010            JMP     A(0)
1386  004306  060500                    ADD     %5,%0
1387  004310  020700                    CMP     %7,%0           ;%0 POINTS HERE
1388  004312  001401                    BEQ     .+4
1389  004314  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1390
1391  004316  060200                    ADD     %2,%0
1392  004320  000110                    JMP     @%0
1393  004322  060300                    ADD     %3,%0
1394  004324  020700                    CMP     %7,%0           ;%0 POINTS HERE
1395  004326  001401                    BEQ     .+4
1396  004330  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1397  004332  000167  000000            JMP     .+4
1398  004336  060500                    ADD     %5,%0
1399  004340  020700                    CMP     %7,%0           ;%0 POINTS HERE
1400  004342  001401                    BEQ     .+4
1401  004344  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1402
1403  004346  000137  004352            JMP     @#.+4
1404  004352  060500                    ADD     %5,%0
1405  004354  020700                    CMP     %7,%0           ;%0 POINTS HERE
1406  004356  001401                    BEQ     .+4
1407  004360  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1408  004362  060400                    ADD     %4,%0
1409
1410
1411  004364  000177  000000            JMP     @.+4
1412  004370  004372                    .+2
1413  004372  020700                    CMP     %7,%0           ;%0 POINTS HERE
1414  004374  001401                    BEQ     .+4
1415  004376  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1416
1417  004400  000160  000010            JMP     A(0)
1418  004404  060500                    ADD     %5,%0
1419  004406  020700                    CMP     %7,%0           ;%0 POINTS HERE
1420  004410  001401                    BEQ     .+4
1421  004412  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1422
1423  004414  060200                    ADD     %2,%0
1424  004416  000110                    JMP     @%0
1425  004420  060300                    ADD     %3,%0
1426  004422  020700                    CMP     %7,%0           ;%0 POINTS HERE
1427  004424  001401                    BEQ     .+4
```

```
1428  004426  000000                  HLT
1429  004430  000167  000000          JMP     .+4
1430  004434  060500                  ADD     %5,%0
1431  004436  020700                  CMP     %7,%0           ;%0 POINTS HERE
1432  004440  001401                  BEQ     .+4
1433  004442  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1434
1435  004444  000137  004450          JMP     @#.+4
1436  004450  060500                  ADD     %5,%0
1437  004452  020700                  CMP     %7,%0           ;%0 POINTS HERE
1438  004454  001401                  BEQ     .+4
1439  004456  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1440  004460  060400                  ADD     %4,%0
1441
1442
1443  004462  000177  000000          JMP     @.+4
1444  004466  004470                  .+2
1445  004470  020700                  CMP     %7,%0           ;%0 POINTS HERE
1446  004472  001401                  BEQ     .+4
1447  004474  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1448
1449  004476  000160  000010          JMP     A(0)
1450  004502  060500                  ADD     %5,%0
1451  004504  020700                  CMP     %7,%0           ;%0 POINTS HERE
1452  004506  001401                  BEQ     .+4
1453  004510  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1454
1455  004512  060200                  ADD     %2,%0
1456  004514  000110                  JMP     @%0
1457  004516  060300                  ADD     %3,%0
1458  004520  020700                  CMP     %7,%0           ;%0 POINTS HERE
1459  004522  001401                  BEQ     .+4
1460  004524  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1461  004526  000167  000000          JMP     .+4
1462  004532  060500                  ADD     %5,%0
1463  004534  020700                  CMP     %7,%0           ;%0 POINTS HERE
1464  004536  001401                  BEQ     .+4
1465  004540  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1466
1467  004542  000137  004546          JMP     @#.+4
1468  004546  060500                  ADD     %5,%0
1469  004550  020700                  CMP     %7,%0           ;%0 POINTS HERE
1470  004552  001401                  BEQ     .+4
1471  004554  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1472  004556  060400                  ADD     %4,%0
1473
1474
1475  004560  000177  000000          JMP     @.+4
1476  004564  004566                  .+2
1477  004566  020700                  CMP     %7,%0           ;%0 POINTS HERE
1478  004570  001401                  BEQ     .+4
1479  004572  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1480
1481  004574  000160  000010          JMP     A(0)
1482  004600  060500                  ADD     %5,%0
1483  004602  020700                  CMP     %7,%0           ;%0 POINTS HERE
```

```
1484  004604  001401                    BEQ     .+4
1485  004606  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1486
1487  004610  060200                    ADD     %2,%0
1488  004612  000110                    JMP     @%0
1489  004614  060300                    ADD     %3,%0
1490  004616  020700                    CMP     %7,%0           ;%0 POINTS HERE
1491  004620  001401                    BEQ     .+4
1492  004622  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1493  004624  000167  000000            JMP     .+4
1494  004630  060500                    ADD     %5,%0
1495  004632  020700                    CMP     %7,%0           ;%0 POINTS HERE
1496  004634  001401                    BEQ     .+4
1497  004636  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1498
1499  004640  000137  004644            JMP     @#.+4
1500  004644  060500                    ADD     %5,%0
1501  004646  020700                    CMP     %7,%0           ;%0 POINTS HERE
1502  004650  001401                    BEQ     .+4
1503  004652  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1504  004654  060400                    ADD     %4,%0
1505
1506
1507  004656  000177  000000            JMP     @.+4
1508  004662  004664                    .+2
1509  004664  020700                    CMP     %7,%0           ;%0 POINTS HERE
1510  004666  001401                    BEQ     .+4
1511  004670  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1512
1513  004672  000160  000010            JMP     A(0)
1514  004676  060500                    ADD     %5,%0
1515  004700  020700                    CMP     %7,%0           ;%0 POINTS HERE
1516  004702  001401                    BEQ     .+4
1517  004704  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1518
1519  004706  060200                    ADD     %2,%0
1520  004710  000110                    JMP     @%0
1521  004712  060300                    ADD     %3,%0
1522  004714  020700                    CMP     %7,%0           ;%0 POINTS HERE
1523  004716  001401                    BEQ     .+4
1524  004720  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1525  004722  000167  000000            JMP     .+4
1526  004726  060500                    ADD     %5,%0
1527  004730  020700                    CMP     %7,%0           ;%0 POINTS HERE
1528  004732  001401                    BEQ     .+4
1529  004734  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1530
1531  004736  000137  004742            JMP     @#.+4
1532  004742  060500                    ADD     %5,%0
1533  004744  020700                    CMP     %7,%0           ;%0 POINTS HERE
1534  004746  001401                    BEQ     .+4
1535  004750  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1536  004752  060400                    ADD     %4,%0
1537
1538
1539  004754  000177  000000            JMP     @.+4
```

```
1540  004760  004762                  .+2
1541  004762  020700                  CMP     %7,%0           ;%0 POINTS HERE
1542  004764  001401                  BEQ     .+4
1543  004766  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1544
1545  004770  000160  000010          JMP     A(0)
1546  004774  060500                  ADD     %5,%0
1547  004776  020700                  CMP     %7,%0           ;%0 POINTS HERE
1548  005000  001401                  BEQ     .+4
1549  005002  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1550
1551  005004  060200                  ADD     %2,%0
1552  005006  000110                  JMP     @%0
1553  005010  060300                  ADD     %3,%0
1554  005012  020700                  CMP     %7,%0           ;%0 POINTS HERE
1555  005014  001401                  BEQ     .+4
1556  005016  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1557  005020  000167  000000          JMP     .+4
1558  005024  060500                  ADD     %5,%0
1559  005026  020700                  CMP     %7,%0           ;%0 POINTS HERE
1560  005030  001401                  BEQ     .+4
1561  005032  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1562
1563  005034  000137  005040          JMP     @#.+4
1564  005040  060500                  ADD     %5,%0
1565  005042  020700                  CMP     %7,%0           ;%0 POINTS HERE
1566  005044  001401                  BEQ     .+4
1567  005046  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1568  005050  060400                  ADD     %4,%0
1569
1570
1571  005052  000177  000000          JMP     @.+4
1572  005056  005060                  .+2
1573  005060  020700                  CMP     %7,%0           ;%0 POINTS HERE
1574  005062  001401                  BEQ     .+4
1575  005064  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1576
1577  005066  000160  000010          JMP     A(0)
1578  005072  060500                  ADD     %5,%0
1579  005074  020700                  CMP     %7,%0           ;%0 POINTS HERE
1580  005076  001401                  BEQ     .+4
1581  005100  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1582
1583  005102  060200                  ADD     %2,%0
1584  005104  000110                  JMP     @%0
1585  005106  060300                  ADD     %3,%0
1586  005110  020700                  CMP     %7,%0           ;%0 POINTS HERE
1587  005112  001401                  BEQ     .+4
1588  005114  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1589  005116  000167  000000          JMP     .+4
1590  005122  060500                  ADD     %5,%0
1591  005124  020700                  CMP     %7,%0           ;%0 POINTS HERE
1592  005126  001401                  BEQ     .+4
1593  005130  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1594
1595  005132  000137  005136          JMP     @#.+4
```

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1596  005136  060500                          ADD     %5,%0
1597  005140  020700                          CMP     %7,%0           ;%0 POINTS HERE
1598  005142  001401                          BEQ     .+4
1599  005144  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1600  005146  060400                          ADD     %4,%0
1601
1602
1603  005150  000177  000000                  JMP     @.+4
1604  005154  005156                          .+2
1605  005156  020700                          CMP     %7,%0           ;%0 POINTS HERE
1606  005160  001401                          BEQ     .+4
1607  005162  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1608
1609  005164  000160  000010                  JMP     A(0)
1610  005170  060500                          ADD     %5,%0
1611  005172  020700                          CMP     %7,%0           ;%0 POINTS HERE
1612  005174  001401                          BEQ     .+4
1613  005176  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1614
1615  005200  060200                          ADD     %2,%0
1616  005202  000110                          JMP     @%0
1617  005204  060300                          ADD     %3,%0
1618  005206  020700                          CMP     %7,%0           ;%0 POINTS HERE
1619  005210  001401                          BEQ     .+4
1620  005212  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1621  005214  000167  000000                  JMP     .+4
1622  005220  060500                          ADD     %5,%0
1623  005222  020700                          CMP     %7,%0           ;%0 POINTS HERE
1624  005224  001401                          BEQ     .+4
1625  005226  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1626
1627  005230  000137  005234                  JMP     @#.+4
1628  005234  060500                          ADD     %5,%0
1629  005236  020700                          CMP     %7,%0           ;%0 POINTS HERE
1630  005240  001401                          BEQ     .+4
1631  005242  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1632  005244  060400                          ADD     %4,%0
1633
1634
1635  005246  000177  000000                  JMP     @.+4
1636  005252  005254                          .+2
1637  005254  020700                          CMP     %7,%0           ;%0 POINTS HERE
1638  005256  001401                          BEQ     .+4
1639  005260  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1640
1641  005262  000160  000010                  JMP     A(0)
1642  005266  060500                          ADD     %5,%0
1643  005270  020700                          CMP     %7,%0           ;%0 POINTS HERE
1644  005272  001401                          BEQ     .+4
1645  005274  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1646
1647  005276  060200                          ADD     %2,%0
1648  005300  000110                          JMP     @%0
1649  005302  060300                          ADD     %3,%0
1650  005304  020700                          CMP     %7,%0           ;%0 POINTS HERE
1651  005306  001401                          BEQ     .+4
```

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1652  005310  000000                        HLT
1653  005312  000167  000000                JMP     .+4
1654  005316  060500                        ADD     %5,%0
1655  005320  020700                        CMP     %7,%0           ;%0 POINTS HERE
1656  005322  001401                        BEQ     .+4
1657  005324  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1658
1659  005326  000137  005332                JMP     @#.+4
1660  005332  060500                        ADD     %5,%0
1661  005334  020700                        CMP     %7,%0           ;%0 POINTS HERE
1662  005336  001401                        BEQ     .+4
1663  005340  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1664  005342  060400                        ADD     %4,%0
1665
1666
1667  005344  000177  000000                JMP     @.+4
1668  005350  005352                        .+2
1669  005352  020700                        CMP     %7,%0           ;%0 POINTS HERE
1670  005354  001401                        BEQ     .+4
1671  005356  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1672
1673  005360  000160  000010                JMP     A(0)
1674  005364  060500                        ADD     %5,%0
1675  005366  020700                        CMP     %7,%0           ;%0 POINTS HERE.
1676  005370  001401                        BEQ     .+4
1677  005372  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1678
1679  005374  060200                        ADD     %2,%0
1680  005376  000110                        JMP     @%0
1681  005400  060300                        ADD     %3,%0
1682  005402  020700                        CMP     %7,%0           ;%0 POINTS HERE
1683  005404  001401                        BEQ     .+4
1684  005406  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1685  005410  000167  000000                JMP     .+4
1686  005414  060500                        ADD     %5,%0
1687  005416  020700                        CMP     %7,%0           ;%0 POINTS HERE
1688  005420  001401                        BEQ     .+4
1689  005422  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1690
1691  005424  000137  005430                JMP     @#.+4
1692  005430  060500                        ADD     %5,%0
1693  005432  020700                        CMP     %7,%0           ;%0 POINTS HERE
1694  005434  001401                        BEQ     .+4
1695  005436  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1696  005440  060400                        ADD     %4,%0
1697
1698
1699  005442  000177  000000                JMP     @.+4
1700  005446  005450                        .+2
1701  005450  020700                        CMP     %7,%0           ;%0 POINTS HERE
1702  005452  001401                        BEQ     .+4
1703  005454  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1704
1705  005456  000160  000010                JMP     A(0)
1706  005462  060500                        ADD     %5,%0
1707  005464  020700                        CMP     %7,%0           ;%0 POINTS HERE
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1708  005466  001401                    BEQ     .+4
1709  005470  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1710
1711  005472  060200                    ADD     %2,%0
1712  005474  000110                    JMP     @%0
1713  005476  060300                    ADD     %3,%0
1714  005500  020700                    CMP     %7,%0           ;%0 POINTS HERE
1715  005502  001401                    BEQ     .+4
1716  005504  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1717  005506  000167  000000            JMP     .+4
1718  005512  060500                    ADD     %5,%0
1719  005514  020700                    CMP     %7,%0           ;%0 POINTS HERE
1720  005516  001401                    BEQ     .+4
1721  005520  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1722
1723  005522  000137  005526            JMP     @#.+4
1724  005526  060500                    ADD     %5,%0
1725  005530  020700                    CMP     %7,%0           ;%0 POINTS HERE
1726  005532  001401                    BEQ     .+4
1727  005534  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1728  005536  060400                    ADD     %4,%0
1729
1730
1731  005540  000177  000000            JMP     @.+4
1732  005544  005546                    .+2
1733  005546  020700                    CMP     %7,%0           ;%0 POINTS HERE
1734  005550  001401                    BEQ     .+4
1735  005552  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1736
1737  005554  000160  000010            JMP     A(0)
1738  005560  060500                    ADD     %5,%0
1739  005562  020700                    CMP     %7,%0           ;%0 POINTS HERE
1740  005564  001401                    BEQ     .+4
1741  005566  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1742
1743  005570  060200                    ADD     %2,%0
1744  005572  000110                    JMP     @%0
1745  005574  060300                    ADD     %3,%0
1746  005576  020700                    CMP     %7,%0           ;%0 POINTS HERE
1747  005600  001401                    BEQ     .+4
1748  005602  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1749  005604  000167  000000            JMP     .+4
1750  005610  060500                    ADD     %5,%0
1751  005612  020700                    CMP     %7,%0           ;%0 POINTS HERE
1752  005614  001401                    BEQ     .+4
1753  005616  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1754
1755  005620  000137  005624            JMP     @#.+4
1756  005624  060500                    ADD     %5,%0
1757  005626  020700                    CMP     %7,%0           ;%0 POINTS HERE
1758  005630  001401                    BEQ     .+4
1759  005632  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1760  005634  060400                    ADD     %4,%0
1761
1762
1763  005636  000177  000000            JMP     @.+4
```

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1764  005642  005644                          .+2
1765  005644  020700                          CMP     %7,%0           ;%0 POINTS HERE
1766  005646  001401                          BEQ     .+4
1767  005650  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1768
1769  005652  000160  000010                  JMP     A(0)
1770  005656  060500                          ADD     %5,%0
1771  005660  020700                          CMP     %7,%0           ;%0 POINTS HERE
1772  005662  001401                          BEQ     .+4
1773  005664  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1774
1775  005666  060200                          ADD     %2,%0
1776  005670  000110                          JMP     @%0
1777  005672  060300                          ADD     %3,%0
1778  005674  020700                          CMP     %7,%0           ;%0 POINTS HERE
1779  005676  001401                          BEQ     .+4
1780  005700  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1781  005702  000167  000000                  JMP     .+4
1782  005706  060500                          ADD     %5,%0
1783  005710  020700                          CMP     %7,%0           ;%0 POINTS HERE
1784  005712  001401                          BEQ     .+4
1785  005714  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1786
1787  005716  000137  005722                  JMP     @#.+4
1788  005722  060500                          ADD     %5,%0
1789  005724  020700                          CMP     %7,%0           ;%0 POINTS HERE
1790  005726  001401                          BEQ     .+4
1791  005730  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1792  005732  060400                          ADD     %4,%0
1793
1794
1795  005734  000177  000000                  JMP     @.+4
1796  005740  005742                          .+2
1797  005742  020700                          CMP     %7,%0           ;%0 POINTS HERE
1798  005744  001401                          BEQ     .+4
1799  005746  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1800
1801  005750  000160  000010                  JMP     A(0)
1802  005754  060500                          ADD     %5,%0
1803  005756  020700                          CMP     %7,%0           ;%0 POINTS HERE
1804  005760  001401                          BEQ     .+4
1805  005762  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1806
1807  005764  060200                          ADD     %2,%0
1808  005766  000110                          JMP     @%0
1809  005770  060300                          ADD     %3,%0
1810  005772  020700                          CMP     %7,%0           ;%0 POINTS HERE
1811  005774  001401                          BEQ     .+4
1812  005776  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1813  006000  000167  000000                  JMP     .+4
1814  006004  060500                          ADD     %5,%0
1815  006006  020700                          CMP     %7,%0           ;%0 POINTS HERE
1816  006010  001401                          BEQ     .+4
1817  006012  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1818
1819  006014  000137  006020                  JMP     @#.+4
```

```
1820  006020  060500                          ADD     %5,%0
1821  006022  020700                          CMP     %7,%0           ;%0 POINTS HERE
1822  006024  001401                          BEQ     .+4
1823  006026  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1824  006C30  060400                          ADD     %4,%0
1825
1826
1827  006032  000177  000000                  JMP     @.+4
1828  006036  006040                          .+2
1829  006040  020700                          CMP     %7,%0           ;%0 POINTS HERE
1830  006042  001401                          BEQ     .+4
1831  006044  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1832
1833  006046  000160  000010                  JMP     A(0)
1834  006052  060500                          ADD     %5,%0
1835  006054  020700                          CMP     %7,%0           ;%0 POINTS HERE
1836  006056  001401                          BEQ     .+4
1837  006060  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1838
1839  006062  060200                          ADD     %2,%0
1840  006064  000110                          JMP     @%0
1841  006066  060300                          ADD     %3,%0
1842  006070  020700                          CMP     %7,%0           ;%0 POINTS HERE
1843  006072  001401                          BEQ     .+4
1844  006074  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1845  006076  000167  000000                  JMP     .+4
1846  006102  060500                          ADD     %5,%0
1847  006104  020700                          CMP     %7,%0           ;%0 POINTS HERE
1848  006106  001401                          BEQ     .+4
1849  006110  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1850
1851  006112  000137  006116                  JMP     @#.+4
1852  006116  060500                          ADD     %5,%0
1853  006120  020700                          CMP     %7,%0           ;%0 POINTS HERE
1854  006122  001401                          BEQ     .+4
1855  006124  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1856  006126  060400                          ADD     %4,%0
1857
1858
1859  006130  000177  000000                  JMP     @.+4
1860  006134  006136                          .+2
1861  006136  020700                          CMP     %7,%0           ;%0 POINTS HERE
1862  006140  001401                          BEQ     .+4
1863  006142  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1864
1865  006144  000160  000010                  JMP     A(0)
1866  006150  060500                          ADD     %5,%0
1867  006152  020700                          CMP     %7,%0           ;%0 POINTS HERE
1868  006154  001401                          BEQ     .+4
1869  006156  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1870
1871  006160  060200                          ADD     %2,%0
1872  006162  000110                          JMP     @%0
1873  006164  060300                          ADD     %3,%0
1874  006166  020700                          CMP     %7,%0           ;%0 POINTS HERE
1875  006170  001401                          BEQ     .+4
```

```
1876  006172  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1877  006174  000167  000000        JMP     .+4
1878  006200  060500                ADD     %5,%0
1879  006202  020700                CMP     %7,%0           ;%0 POINTS HERE
1880  006204  001401                BEQ     .+4
1881  006206  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1882
1883  006210  000137  006214        JMP     @#.+4
1884  006214  060500                ADD     %5,%0
1885  006216  020700                CMP     %7,%0           ;%0 POINTS HERE
1886  006220  001401                BEQ     .+4
1887  006222  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1888  006224  060400                ADD     %4,%0
1889
1890
1891  006226  000177  000000        JMP     @.+4
1892  006232  006234                .+2
1893  006234  020700                CMP     %7,%0           ;%0 POINTS HERE
1894  006236  001401                BEQ     .+4
1895  006240  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1896
1897  006242  000160  000010        JMP     A(0)
1898  006246  060500                ADD     %5,%0
1899  006250  020700                CMP     %7,%0           ;%0 POINTS HERE
1900  006252  001401                BEQ     .+4
1901  006254  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1902
1903  006256  060200                ADD     %2,%0
1904  006260  000110                JMP     @%0
1905  006262  060300                ADD     %3,%0
1906  006264  020700                CMP     %7,%0           ;%0 POINTS HERE
1907  006266  001401                BEQ     .+4
1908  006270  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1909  006272  000167  000000        JMP     .+4
1910  006276  060500                ADD     %5,%0
1911  006300  020700                CMP     %7,%0           ;%0 POINTS HERE
1912  006302  001401                BEQ     .+4
1913  006304  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1914
1915  006306  000137  006312        JMP     @#.+4
1916  006312  060500                ADD     %5,%0
1917  006314  020700                CMP     %7,%0           ;%0 POINTS HERE
1918  006316  001401                BEQ     .+4
1919  006320  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1920  006322  060400                ADD     %4,%0
1921
1922
1923  006324  000177  000000        JMP     @.+4
1924  006330  006332                .+2
1925  006332  020700                CMP     %7,%0           ;%0 POINTS HERE
1926  006334  001401                BEQ     .+4
1927  006336  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1928
1929  006340  000160  000010        JMP     A(0)
1930  006344  060500                ADD     %5,%0
1931  006346  020700                CMP     %7,%0           ;%0 POINTS HERE
```

```
1932  006350  001401                    BEQ     .+4
1933  006352  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1934
1935  006354  060200                    ADD     %2,%0
1936  006356  000110                    JMP     @%0
1937  006360  060300                    ADD     %3,%0
1938  006362  020700                    CMP     %7,%0           ;%0 POINTS HERE
1939  006364  001401                    BEQ     .+4
1940  006366  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1941  006370  000167  000000            JMP     .+4
1942  006374  060500                    ADD     %5,%0
1943  006376  020700                    CMP     %7,%0           ;%0 POINTS HERE
1944  006400  001401                    BEQ     .+4
1945  006402  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1946
1947  006404  000137  006410            JMP     @#.+4
1948  006410  060500                    ADD     %5,%0
1949  006412  020700                    CMP     %7,%0           ;%0 POINTS HERE
1950  006414  001401                    BEQ     .+4
1951  006416  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1952  006420  060400                    ADD     %4,%0
1953
1954
1955  006422  000177  000000            JMP     @.+4
1956  006426  006430                    .+2
1957  006430  020700                    CMP     %7,%0           ;%0 POINTS HERE
1958  006432  001401                    BEQ     .+4
1959  006434  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1960
1961  006436  000160  000010            JMP     A(0)
1962  006442  060500                    ADD     %5,%0
1963  006444  020700                    CMP     %7,%0           ;%0 POINTS HERE
1964  006446  001401                    BEQ     .+4
1965  006450  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1966
1967  006452  060200                    ADD     %2,%0
1968  006454  000110                    JMP     @%0
1969  006456  060300                    ADD     %3,%0
1970  006460  020700                    CMP     %7,%0           ;%0 POINTS HERE
1971  006462  001401                    BEQ     .+4
1972  006464  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1973  006466  000167  000000            JMP     .+4
1974  006472  060500                    ADD     %5,%0
1975  006474  020700                    CMP     %7,%0           ;%0 POINTS HERE
1976  006476  001401                    BEQ     .+4
1977  006500  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1978
1979  006502  000137  006506            JMP     @#.+4
1980  006506  060500                    ADD     %5,%0
1981  006510  020700                    CMP     %7,%0           ;%0 POINTS HERE
1982  006512  001401                    BEQ     .+4
1983  006514  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1984  006516  060400                    ADD     %4,%0
1985
1986
1987  006520  000177  000000            JMP     @.+4
```

```
1988  006524  006526                          .+2
1989  006526  020700                          CMP     %7,%0           ;%0 POINTS HERE
1990  006530  001401                          BEQ     .+4
1991  006532  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
1992
1993  006534  000160  000010                  JMP     A(0)
1994  006540  060500                          ADD     %5,%0
1995  006542  020700                          CMP     %7,%0           ;%0 POINTS HERE
1996  006544  001401                          BEQ     .+4
1997  006546  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
1998
1999  006550  060200                          ADD     %2,%0
2000  006552  000110                          JMP     @%0
2001  006554  060300                          ADD     %3,%0
2002  006556  020700                          CMP     %7,%0           ;%0 POINTS HERE
2003  006560  001401                          BEQ     .+4
2004  006562  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2005  006564  000167  000000                  JMP     .+4
2006  006570  060500                          ADD     %5,%0
2007  006572  020700                          CMP     %7,%0           ;%0 POINTS HERE
2008  006574  001401                          BEQ     .+4
2009  006576  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2010
2011  006600  000137  006604                  JMP     @#.+4
2012  006604  060500                          ADD     %5,%0
2013  006606  020700                          CMP     %7,%0           ;%0 POINTS HERE
2014  006610  001401                          BEQ     .+4
2015  006612  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2016  006614  060400                          ADD     %4,%0
2017
2018
2019  006616  000177  000000                  JMP     @.+4
2020  006622  006624                          .+2
2021  006624  020700                          CMP     %7,%0           ;%0 POINTS HERE
2022  006626  001401                          BEQ     .+4
2023  006630  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2024
2025  006632  000160  000010                  JMP     A(0)
2026  006636  060500                          ADD     %5,%0
2027  006640  020700                          CMP     %7,%0           ;%0 POINTS HERE
2028  006642  001401                          BEQ     .+4
2029  006644  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2030
2031  006646  060200                          ADD     %2,%0
2032  006650  000110                          JMP     @%0
2033  006652  060300                          ADD     %3,%0
2034  006654  020700                          CMP     %7,%0           ;%0 POINTS HERE
2035  006656  001401                          BEQ     .+4
2036  006660  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2037  006662  000167  000000                  JMP     .+4
2038  006666  060500                          ADD     %5,%0
2039  006670  020700                          CMP     %7,%0           ;%0 POINTS HERE
2040  006672  001401                          BEQ     .+4
2041  006674  000000                          HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2042
2043  006676  000137  006702                  JMP     @#.+4
```

```
2044  006702  060500                  ADD     %5,%0
2045  006704  020700                  CMP     %7,%0           ;%0 POINTS HERE
2046  006706  001401                  BEQ     .+4
2047  006710  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2048  006712  060400                  ADD     %4,%0
2049
2050
2051  006714  000177  000000          JMP     @.+4
2052  006720  006722                  .+2
2053  006722  020700                  CMP     %7,%0           ;%0 POINTS HERE
2054  006724  001401                  BEQ     .+4
2055  006726  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2056
2057  006730  000160  000010          JMP     A(0)
2058  006734  060500                  ADD     %5,%0
2059  006736  020700                  CMP     %7,%0           ;%0 POINTS HERE
2060  006740  001401                  BEQ     .+4
2061  006742  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2062
2063  006744  060200                  ADD     %2,%0
2064  006746  000110                  JMP     @%0
2065  006750  060300                  ADD     %3,%0
2066  006752  020700                  CMP     %7,%0           ;%0 POINTS HERE
2067  006754  001401                  BEQ     .+4
2068  006756  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2069  006760  000167  000000          JMP     .+4
2070  006764  060500                  ADD     %5,%0
2071  006766  020700                  CMP     %7,%0           ;%0 POINTS HERE
2072  006770  001401                  BEQ     .+4
2073  006772  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2074
2075  006774  000137  007000          JMP     @#.+4
2076  007000  060500                  ADD     %5,%0
2077  007002  020700                  CMP     %7,%0           ;%0 POINTS HERE
2078  007004  001401                  BEQ     .+4
2079  007006  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2080  007010  060400                  ADD     %4,%0
2081
2082
2083  007012  000177  000000          JMP     @.+4
2084  007016  007020                  .+2
2085  007020  020700                  CMP     %7,%0           ;%0 POINTS HERE
2086  007022  001401                  BEQ     .+4
2087  007024  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2088
2089  007026  000160  000010          JMP     A(0)
2090  007032  060500                  ADD     %5,%0
2091  007034  020700                  CMP     %7,%0           ;%0 POINTS HERE
2092  007036  001401                  BEQ     .+4
2093  007040  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2094
2095  007042  060200                  ADD     %2,%0
2096  007044  000110                  JMP     @%0
2097  007046  060300                  ADD     %3,%0
2098  007050  020700                  CMP     %7,%0           ;%0 POINTS HERE
2099  007052  001401                  BEQ     .+4
```

```
2100  007054  000000                    HLT
2101  007056  000167  000000            JMP     .+4
2102  007062  060500                    ADD     %5,%0
2103  007064  020700                    CMP     %7,%0       ;%0 POINTS HERE
2104  007066  001401                    BEQ     .+4
2105  007070  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2106
2107  007072  000137  007076            JMP     @#.+4
2108  007076  060500                    ADD     %5,%0
2109  007100  020700                    CMP     %7,%0       ;%0 POINTS HERE
2110  007102  001401                    BEQ     .+4
2111  007104  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2112  007106  060400                    ADD     %4,%0
2113
2114
2115  007110  000177  000000            JMP     @.+4
2116  007114  007116                    .+2
2117  007116  020700                    CMP     %7,%0       ;%0 POINTS HERE
2118  007120  001401                    BEQ     .+4
2119  007122  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2120
2121  007124  000160  000010            JMP     A(0)
2122  007130  060500                    ADD     %5,%0
2123  007132  020700                    CMP     %7,%0       ;%0 POINTS HERE
2124  007134  001401                    BEQ     .+4
2125  007136  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2126
2127  007140  060200                    ADD     %2,%0
2128  007142  000110                    JMP     @%0
2129  007144  060300                    ADD     %3,%0
2130  007146  020700                    CMP     %7,%0       ;%0 POINTS HERE
2131  007150  001401                    BEQ     .+4
2132  007152  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2133  007154  000167  000000            JMP     .+4
2134  007160  060500                    ADD     %5,%0
2135  007162  020700                    CMP     %7,%0       ;%0 POINTS HERE
2136  007164  001401                    BEQ     .+4
2137  007166  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2138
2139  007170  000137  007174            JMP     @#.+4
2140  007174  060500                    ADD     %5,%0
2141  007176  020700                    CMP     %7,%0       ;%0 POINTS HERE
2142  007200  001401                    BEQ     .+4
2143  007202  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2144  007204  060400                    ADD     %4,%0
2145
2146
2147  007206  000177  000000            JMP     @.+4
2148  007212  007214                    .+2
2149  007214  020700                    CMP     %7,%0       ;%0 POINTS HERE
2150  007216  001401                    BEQ     .+4
2151  007220  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2152
2153  007222  000160  000010            JMP     A(0)
2154  007226  060500                    ADD     %5,%0
2155  007230  020700                    CMP     %7,%0       ;%0 POINTS HERE
```

```
2156  007232  001401                    BEQ     .+4
2157  007234  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2158
2159  007236  060200                    ADD     %2,%0
2160  007240  000110                    JMP     @%0
2161  007242  060300                    ADD     %3,%0
2162  007244  020700                    CMP     %7,%0           ;%0 POINTS HERE
2163  007246  001401                    BEQ     .+4
2164  007250  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2165  007252  000167  000000            JMP     .+4
2166  007256  060500                    ADD     %5,%0
2167  007260  020700                    CMP     %7,%0           ;%0 POINTS HERE
2168  007262  001401                    BEQ     .+4
2169  007264  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2170
2171  007266  000137  007272            JMP     @#.+4
2172  007272  060500                    ADD     %5,%0
2173  007274  020700                    CMP     %7,%0           ;%0 POINTS HERE
2174  007276  001401                    BEQ     .+4
2175  007300  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2176  007302  060400                    ADD     %4,%0
2177
2178
2179  007304  000177  000000            JMP     @.+4
2180  007310  007312                    .+2
2181  007312  020700                    CMP     %7,%0           ;%0 POINTS HERE
2182  007314  001401                    BEQ     .+4
2183  007316  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2184
2185  007320  000160  000010            JMP     A(0)
2186  007324  060500                    ADD     %5,%0
2187  007326  020700                    CMP     %7,%0           ;%0 POINTS HERE
2188  007330  001401                    BEQ     .+4
2189  007332  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2190
2191  007334  060200                    ADD     %2,%0
2192  007336  000110                    JMP     @%0
2193  007340  060300                    ADD     %3,%0
2194  007342  020700                    CMP     %7,%0           ;%0 POINTS HERE
2195  007344  001401                    BEQ     .+4
2196  007346  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2197  007350  000167  000000            JMP     .+4
2198  007354  060500                    ADD     %5,%0
2199  007356  020700                    CMP     %7,%0           ;%0 POINTS HERE
2200  007360  001401                    BEQ     .+4
2201  007362  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2202
2203  007364  000137  007370            JMP     @#.+4
2204  007370  060500                    ADD     %5,%0
2205  007372  020700                    CMP     %7,%0           ;%0 POINTS HERE
2206  007374  001401                    BEQ     .+4
2207  007376  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2208  007400  060400                    ADD     %4,%0
2209
2210
2211  007402  000177  000000            JMP     @.+4
```

```
2212  007406  007410                    .+2
2213  007410  020700                    CMP     %7,%0           ;%0 POINTS HERE
2214  007412  001401                    BEQ     .+4
2215  007414  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2216
2217  007416  000160  000010            JMP     A(0)
2218  007422  060500                    ADD     %5,%0
2219  007424  020700                    CMP     %7,%0           ;%0 POINTS HERE
2220  007426  001401                    BEQ     .+4
2221  007430  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2222
2223  007432  060200                    ADD     %2,%0
2224  007434  000110                    JMP     @%0
2225  007436  060300                    ADD     %3,%0
2226  007440  020700                    CMP     %7,%0           ;%0 POINTS HERE
2227  007442  001401                    BEQ     .+4
2228  007444  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2229  007446  000167  000000            JMP     .+4
2230  007452  060500                    ADD     %5,%0
2231  007454  020700                    CMP     %7,%0           ;%0 POINTS HERE
2232  007456  001401                    BEQ     .+4
2233  007460  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2234
2235  007462  000137  007466            JMP     @#.+4
2236  007466  060500                    ADD     %5,%0
2237  007470  020700                    CMP     %7,%0           ;%0 POINTS HERE
2238  007472  001401                    BEQ     .+4
2239  007474  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2240  007476  060400                    ADD     %4,%0
2241
2242
2243  007500  000177  000000            JMP     @.+4
2244  007504  007506                    .+2
2245  007506  020700                    CMP     %7,%0           ;%0 POINTS HERE
2246  007510  001401                    BEQ     .+4
2247  007512  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2248
2249  007514  000160  000010            JMP     A(0)
2250  007520  060500                    ADD     %5,%0
2251  007522  020700                    CMP     %7,%0           ;%0 POINTS HERE
2252  007524  001401                    BEQ     .+4
2253  007526  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2254
2255  007530  060200                    ADD     %2,%0
2256  007532  000110                    JMP     @%0
2257  007534  060300                    ADD     %3,%0
2258  007536  020700                    CMP     %7,%0           ;%0 POINTS HERE
2259  007540  001401                    BEQ     .+4
2260  007542  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2261  007544  000167  000000            JMP     .+4
2262  007550  060500                    ADD     %5,%0
2263  007552  020700                    CMP     %7,%0           ;%0 POINTS HERE
2264  007554  001401                    BEQ     .+4
2265  007556  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2266
2267  007560  000137  007564            JMP     @#.+4
```

```
2268  007564  060500                    ADD     %5,%0
2269  007566  020700                    CMP     %7,%0       ;%0 POINTS HERE
2270  007570  001401                    BEQ     .+4
2271  007572  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2272  007574  060400                    ADD     %4,%0
2273
2274
2275  007576  000177  000000            JMP     @.+4
2276  007602  007604                    .+2
2277  007604  020700                    CMP     %7,%0       ;%0 POINTS HERE
2278  007606  001401                    BEQ     .+4
2279  007610  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2280
2281  007612  000160  000010            JMP     A(0)
2282  007616  060500                    ADD     %5,%0
2283  007620  020700                    CMP     %7,%0       ;%0 POINTS HERE
2284  007622  001401                    BEQ     .+4
2285  007624  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2286
2287  007626  060200                    ADD     %2,%0
2288  007630  000110                    JMP     @%0
2289  007632  060300                    ADD     %3,%0
2290  007634  020700                    CMP     %7,%0       ;%0 POINTS HERE
2291  007636  001401                    BEQ     .+4
2292  007640  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2293  007642  000167  000000            JMP     .+4
2294  007646  060500                    ADD     %5,%0
2295  007650  020700                    CMP     %7,%0       ;%0 POINTS HERE
2296  007652  001401                    BEQ     .+4
2297  007654  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2298
2299  007656  000137  007662            JMP     @#.+4
2300  007662  060500                    ADD     %5,%0
2301  007664  020700                    CMP     %7,%0       ;%0 POINTS HERE
2302  007666  001401                    BEQ     .+4
2303  007670  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2304  007672  060400                    ADD     %4,%0
2305
2306
2307  007674  000177  000000            JMP     @.+4
2308  007700  007702                    .+2
2309  007702  020700                    CMP     %7,%0       ;%0 POINTS HERE
2310  007704  001401                    BEQ     .+4
2311  007706  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2312
2313  007710  000160  000010            JMP     A(0)
2314  007714  060500                    ADD     %5,%0
2315  007716  020700                    CMP     %7,%0       ;%0 POINTS HERE
2316  007720  001401                    BEQ     .+4
2317  007722  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2318
2319  007724  060200                    ADD     %2,%0
2320  007726  000110                    JMP     @%0
2321  007730  060300                    ADD     %3,%0
2322  007732  020700                    CMP     %7,%0       ;%0 POINTS HERE
2323  007734  001401                    BEQ     .+4
```

```
2324  007736  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2325  007740  000167  000000            JMP     .+4
2326  007744  060500                    ADD     %5,%0
2327  007746  020700                    CMP     %7,%0           ;%0 POINTS HERE
2328  007750  001401                    BEQ     .+4
2329  007752  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2330
2331  007754  000137  007760            JMP     @#.+4
2332  007760  060500                    ADD     %5,%0
2333  007762  020700                    CMP     %7,%0           ;%0 POINTS HERE
2334  007764  001401                    BEQ     .+4
2335  007766  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2336  007770  060400                    ADD     %4,%0
2337
2338
2339  007772  000177  000000            JMP     @.+4
2340  007776  010000                    .+2
2341  010000  020700                    CMP     %7,%0           ;%0 POINTS HERE
2342  010002  001401                    BEQ     .+4
2343  010004  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2344
2345  010006  000160  000010            JMP     A(0)
2346  010012  060500                    ADD     %5,%0
2347  010014  020700                    CMP     %7,%0           ;%0 POINTS HERE
2348  010016  001401                    BEQ     .+4
2349  010020  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2350
2351  010022  060200                    ADD     %2,%0
2352  010024  000110                    JMP     @%0
2353  010026  060300                    ADD     %3,%0
2354  010030  020700                    CMP     %7,%0           ;%0 POINTS HERE
2355  010032  001401                    BEQ     .+4
2356  010034  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2357  010036  000167  000000            JMP     .+4
2358  010042  060500                    ADD     %5,%0
2359  010044  020700                    CMP     %7,%0           ;%0 POINTS HERE
2360  010046  001401                    BEQ     .+4
2361  010050  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2362
2363  010052  000137  010056            JMP     @#.+4
2364  010056  060500                    ADD     %5,%0
2365  010060  020700                    CMP     %7,%0           ;%0 POINTS HERE
2366  010062  001401                    BEQ     .+4
2367  010064  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2368  010066  060400                    ADD     %4,%0
2369
2370
2371  010070  000177  000000            JMP     @.+4
2372  010074  010076                    .+2
2373  010076  020700                    CMP     %7,%0           ;%0 POINTS HERE
2374  010100  001401                    BEQ     .+4
2375  010102  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2376
2377  010104  000160  000010            JMP     A(0)
2378  010110  060500                    ADD     %5,%0
2379  010112  020700                    CMP     %7,%0           ;%0 POINTS HERE
```

```
2380  010114  001401                BEQ     .+4
2381  010116  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2382
2383  010120  060200                ADD     %2,%0
2384  010122  000110                JMP     @%0
2385  010124  060300                ADD     %3,%0
2386  010126  020700                CMP     %7,%0           ;%0 POINTS HERE
2387  010130  001401                BEQ     .+4
2388  010132  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2389  010134  000167  000000        JMP     .+4
2390  010140  060500                ADD     %5,%0
2391  010142  020700                CMP     %7,%0           ;%0 POINTS HERE
2392  010144  001401                BEQ     .+4
2393  010146  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2394
2395  010150  000137  010154        JMP     @#.+4
2396  010154  060500                ADD     %5,%0
2397  010156  020700                CMP     %7,%0           ;%0 POINTS HERE
2398  010160  001401                BEQ     .+4
2399  010162  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2400  010164  060400                ADD     %4,%0
2401
2402
2403  010166  000177  000000        JMP     @.+4
2404  010172  010174                .+2
2405  010174  020700                CMP     %7,%0           ;%0 POINTS HERE
2406  010176  001401                BEQ     .+4
2407  010200  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2408
2409  010202  000160  000010        JMP     A(0)
2410  010206  060500                ADD     %5,%0
2411  010210  020700                CMP     %7,%0           ;%0 POINTS HERE
2412  010212  001401                BEQ     .+4
2413  010214  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2414
2415  010216  060200                ADD     %2,%0
2416  010220  000110                JMP     @%0
2417  010222  060300                ADD     %3,%0
2418  010224  020700                CMP     %7,%0           ;%0 POINTS HERE
2419  010226  001401                BEQ     .+4
2420  010230  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2421  010232  000167  000000        JMP     .+4
2422  010236  060500                ADD     %5,%0
2423  010240  020700                CMP     %7,%0           ;%0 POINTS HERE
2424  010242  001401                BEQ     .+4
2425  010244  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2426
2427  010246  000137  010252        JMP     @#.+4
2428  010252  060500                ADD     %5,%0
2429  010254  020700                CMP     %7,%0           ;%0 POINTS HERE
2430  010256  001401                BEQ     .+4
2431  010260  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2432  010262  060400                ADD     %4,%0
2433
2434
2435  010264  000177  000000        JMP     @.+4
```

```
2436  010270  010272                    .+2
2437  010272  020700                    CMP     %7,%0           ;%0 POINTS HERE
2438  010274  001401                    BEQ     .+4
2439  010276  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2440
2441  010300  000160  000010            JMP     A(0)
2442  010304  060500                    ADD     %5,%0
2443  010306  020700                    CMP     %7,%0           ;%0 POINTS HERE
2444  010310  001401                    BEQ     .+4
2445  010312  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2446
2447  010314  060200                    ADD     %2,%0
2448  010316  000110                    JMP     @%0
2449  010320  060300                    ADD     %3,%0
2450  010322  020700                    CMP     %7,%0           ;%0 POINTS HERE
2451  010324  001401                    BEQ     .+4
2452  010326  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2453  010330  000167  000000            JMP     .+4
2454  010334  060500                    ADD     %5,%0
2455  010336  020700                    CMP     %7,%0           ;%0 POINTS HERE
2456  010340  001401                    BEQ     .+4
2457  010342  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2458
2459  010344  000137  010350            JMP     @#.+4
2460  010350  060500                    ADD     %5,%0
2461  010352  020700                    CMP     %7,%0           ;%0 POINTS HERE
2462  010354  001401                    BEQ     .+4
2463  010356  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2464  010360  060400                    ADD     %4,%0
2465
2466
2467  010362  000177  000000            JMP     @.+4
2468  010366  010370                    .+2
2469  010370  020700                    CMP     %7,%0           ;%0 POINTS HERE
2470  010372  001401                    BEQ     .+4
2471  010374  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2472
2473  010376  000160  000010            JMP     A(0)
2474  010402  060500                    ADD     %5,%0
2475  010404  020700                    CMP     %7,%0           ;%0 POINTS HERE
2476  010406  001401                    BEQ     .+4
2477  010410  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2478
2479  010412  060200                    ADD     %2,%0
2480  010414  000110                    JMP     @%0
2481  010416  060300                    ADD     %3,%0
2482  010420  020700                    CMP     %7,%0           ;%0 POINTS HERE
2483  010422  001401                    BEQ     .+4
2484  010424  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2485  010426  000167  000000            JMP     .+4
2486  010432  060500                    ADD     %5,%0
2487  010434  020700                    CMP     %7,%0           ;%0 POINTS HERE
2488  010436  001401                    BEQ     .+4
2489  010440  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2490
2491  010442  000137  010446            JMP     @#.+4
```

```
2492  010446  060500                    ADD     %5,%0
2493  010450  020700                    CMP     %7,%0           ;%0 POINTS HERE
2494  010452  001401                    BEQ     .+4
2495  010454  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2496  010456  060400                    ADD     %4,%0
2497
2498
2499  010460  000177  000000            JMP     @.+4
2500  010464  010466                    .+2
2501  010466  020700                    CMP     %7,%0           ;%0 POINTS HERE
2502  010470  001401                    BEQ     .+4
2503  010472  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2504
2505  010474  000160  000010            JMP     A(0)
2506  010500  060500                    ADD     %5,%0
2507  010502  020700                    CMP     %7,%0           ;%0 POINTS HERE
2508  010504  001401                    BEQ     .+4
2509  010506  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2510
2511  010510  060200                    ADD     %2,%0
2512  010512  000110                    JMP     @%0
2513  010514  060300                    ADD     %3,%0
2514  010516  020700                    CMP     %7,%0           ;%0 POINTS HERE
2515  010520  001401                    BEQ     .+4
2516  010522  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2517  010524  000167  000000            JMP     .+4
2518  010530  060500                    ADD     %5,%0
2519  010532  020700                    CMP     %7,%0           ;%0 POINTS HERE
2520  010534  001401                    BEQ     .+4
2521  010536  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2522
2523  010540  000137  010544            JMP     @#.+4
2524  010544  060500                    ADD     %5,%0
2525  010546  020700                    CMP     %7,%0           ;%0 POINTS HERE
2526  010550  001401                    BEQ     .+4
2527  010552  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2528  010554  060400                    ADD     %4,%0
2529
2530
2531  010556  000177  000000            JMP     @.+4
2532  010562  010564                    .+2
2533  010564  020700                    CMP     %7,%0           ;%0 POINTS HERE
2534  010566  001401                    BEQ     .+4
2535  010570  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2536
2537  010572  000160  000010            JMP     A(0)
2538  010576  060500                    ADD     %5,%0
2539  010600  020700                    CMP     %7,%0           ;%0 POINTS HERE
2540  010602  001401                    BEQ     .+4
2541  010604  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2542
2543  010606  060200                    ADD     %2,%0
2544  010610  000110                    JMP     @%0
2545  010612  060300                    ADD     %3,%0
2546  010614  020700                    CMP     %7,%0           ;%0 POINTS HERE
2547  010616  001401                    BEQ     .+4
```

```
2548  010620  000000                HLT
2549  010622  000167  000000        JMP     .+4
2550  010626  060500                ADD     %5,%0
2551  010630  020700                CMP     %7,%0       ;%0 POINTS HERE
2552  010632  001401                BEQ     .+4
2553  010634  000000                HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2554
2555  010636  000137  010642        JMP     @#.+4
2556  010642  060500                ADD     %5,%0
2557  010644  020700                CMP     %7,%0       ;%0 POINTS HERE
2558  010646  001401                BEQ     .+4
2559  010650  000000                HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2560  010652  060400                ADD     %4,%0
2561
2562
2563  010654  000177  000000        JMP     @.+4
2564  010660  010662                .+2
2565  010662  020700                CMP     %7,%0       ;%0 POINTS HERE
2566  010664  001401                BEQ     .+4
2567  010666  000000                HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2568
2569  010670  000160  000010        JMP     A(0)
2570  010674  060500                ADD     %5,%0
2571  010676  020700                CMP     %7,%0       ;%0 POINTS HERE
2572  010700  001401                BEQ     .+4
2573  010702  000000                HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2574
2575  010704  060200                ADD     %2,%0
2576  010706  000110                JMP     @%0
2577  010710  060300                ADD     %3,%0
2578  010712  020700                CMP     %7,%0       ;%0 POINTS HERE
2579  010714  001401                BEQ     .+4
2580  010716  000000                HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2581  010720  000167  000000        JMP     .+4
2582  010724  060500                ADD     %5,%0
2583  010726  020700                CMP     %7,%0       ;%0 POINTS HERE
2584  010730  001401                BEQ     .+4
2585  010732  000000                HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2586
2587  010734  000137  010740        JMP     @#.+4
2588  010740  060500                ADD     %5,%0
2589  010742  020700                CMP     %7,%0       ;%0 POINTS HERE
2590  010744  001401                BEQ     .+4
2591  010746  000000                HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
2592  010750  060400                ADD     %4,%0
2593
2594
2595  010752  000177  000000        JMP     @.+4
2596  010756  010760                .+2
2597  010760  020700                CMP     %7,%0       ;%0 POINTS HERE
2598  010762  001401                BEQ     .+4
2599  010764  000000                HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2600
2601  010766  000160  000010        JMP     A(0)
2602  010772  060500                ADD     %5,%0
2603  010774  020700                CMP     %7,%0       ;%0 POINTS HERE
```

```
2604  010776  001401                    BEQ     .+4
2605  011000  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2606
2607  011002  060200                    ADD     %2,%0
2608  011004  000110                    JMP     @%0
2609  011006  060300                    ADD     %3,%0
2610  011010  020700                    CMP     %7,%0           ;%0 POINTS HERE
2611  011012  001401                    BEQ     .+4
2612  011014  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2613  011016  000167  000000            JMP     .+4
2614  011022  060500                    ADD     %5,%0
2615  011024  020700                    CMP     %7,%0           ;%0 POINTS HERE
2616  011026  001401                    BEQ     .+4
2617  011030  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2618
2619  011032  000137  011036            JMP     @#.+4
2620  011036  060500                    ADD     %5,%0
2621  011040  020700                    CMP     %7,%0           ;%0 POINTS HERE
2622  011042  001401                    BEQ     .+4
2623  011044  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2624  011046  060400                    ADD     %4,%0
2625
2626
2627  011050  000177  000000            JMP     @.+4
2628  011054  011056                    .+2
2629  011056  020700                    CMP     %7,%0           ;%0 POINTS HERE
2630  011060  001401                    BEQ     .+4
2631  011062  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2632
2633  011064  000160  000010            JMP     A(0)
2634  011070  060500                    ADD     %5,%0
2635  011072  020700                    CMP     %7,%0           ;%0 POINTS HERE
2636  011074  001401                    BEQ     .+4
2637  011076  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2638
2639  011100  060200                    ADD     %2,%0
2640  011102  000110                    JMP     @%0
2641  011104  060300                    ADD     %3,%0
2642  011106  020700                    CMP     %7,%0           ;%0 POINTS HERE
2643  011110  001401                    BEQ     .+4
2644  011112  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2645  011114  000167  000000            JMP     .+4
2646  011120  060500                    ADD     %5,%0
2647  011122  020700                    CMP     %7,%0           ;%0 POINTS HERE
2648  011124  001401                    BEQ     .+4
2649  011126  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2650
2651  011130  000137  011134            JMP     @#.+4
2652  011134  060500                    ADD     %5,%0
2653  011136  020700                    CMP     %7,%0           ;%0 POINTS HERE
2654  011140  001401                    BEQ     .+4
2655  011142  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2656  011144  060400                    ADD     %4,%0
2657
2658
2659  011146  000177  000000            JMP     @.+4
```

```
 2660  011152  011154                        .+2
 2661  011154  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2662  011156  001401                        BEQ     .+4
 2663  011160  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
 2664
 2665  011162  000160  000010                JMP     A(0)
 2666  011166  060500                        ADD     %5,%0
 2667  011170  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2668  011172  001401                        BEQ     .+4
 2669  011174  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 2670
 2671  011176  060200                        ADD     %2,%0
 2672  011200  000110                        JMP     @%0
 2673  011202  060300                        ADD     %3,%0
 2674  011204  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2675  011206  001401                        BEQ     .+4
 2676  011210  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 2677  011212  000167  000000                JMP     .+4
 2678  011216  060500                        ADD     %5,%0
 2679  011220  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2680  011222  001401                        BEQ     .+4
 2681  011224  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 2682
 2683  011226  000137  011232                JMP     @#.+4
 2684  011232  060500                        ADD     %5,%0
 2685  011234  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2686  011236  001401                        BEQ     .+4
 2687  011240  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 2688  011242  060400                        ADD     %4,%0
 2689
 2690
 2691  011244  000177  000000                JMP     @.+4
 2692  011250  011252                        .+2
 2693  011252  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2694  011254  001401                        BEQ     .+4
 2695  011256  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
 2696
 2697  011260  000160  000010                JMP     A(0)
 2698  011264  060500                        ADD     %5,%0
 2699  011266  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2700  011270  001401                        BEQ     .+4
 2701  011272  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 2702
 2703  011274  060200                        ADD     %2,%0
 2704  011276  000110                        JMP     @%0
 2705  011300  060300                        ADD     %3,%0
 2706  011302  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2707  011304  001401                        BEQ     .+4
 2708  011306  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 2709  011310  000167  000000                JMP     .+4
 2710  011314  060500                        ADD     %5,%0
 2711  011316  020700                        CMP     %7,%0           ;%0 POINTS HERE
 2712  011320  001401                        BEQ     .+4
 2713  011322  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
 2714
 2715  011324  000137  011330                JMP     @#.+4
```

```
2716  011330  060500                    ADD     %5,%0
2717  011332  020700                    CMP     %7,%0           ;%0 POINTS HERE
2718  011334  001401                    BEQ     .+4
2719  011336  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2720  011340  060400                    ADD     %4,%0
2721
2722
2723  011342  000177  000000            JMP     @.+4
2724  011346  011350                    .+2
2725  011350  020700                    CMP     %7,%0           ;%0 POINTS HERE
2726  011352  001401                    BEQ     .+4
2727  011354  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2728
2729  011356  000160  000010            JMP     A(0)
2730  011362  060500                    ADD     %5,%0
2731  011364  020700                    CMP     %7,%0           ;%0 POINTS HERE
2732  011366  001401                    BEQ     .+4
2733  011370  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2734
2735  011372  060200                    ADD     %2,%0
2736  011374  000110                    JMP     @%0
2737  011376  060300                    ADD     %3,%0
2738  011400  020700                    CMP     %7,%0           ;%0 POINTS HERE
2739  011402  001401                    BEQ     .+4
2740  011404  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2741  011406  000167  000000            JMP     .+4
2742  011412  060500                    ADD     %5,%0
2743  011414  020700                    CMP     %7,%0           ;%0 POINTS HERE
2744  011416  001401                    BEQ     .+4
2745  011420  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2746
2747  011422  000137  011426            JMP     @#.+4
2748  011426  060500                    ADD     %5,%0
2749  011430  020700                    CMP     %7,%0           ;%0 POINTS HERE
2750  011432  001401                    BEQ     .+4
2751  011434  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2752  011436  060400                    ADD     %4,%0
2753
2754
2755  011440  000177  000000            JMP     @.+4
2756  011444  011446                    .+2
2757  011446  020700                    CMP     %7,%0           ;%0 POINTS HERE
2758  011450  001401                    BEQ     .+4
2759  011452  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2760
2761  011454  000160  000010            JMP     A(0)
2762  011460  060500                    ADD     %5,%0
2763  011462  020700                    CMP     %7,%0           ;%0 POINTS HERE
2764  011464  001401                    BEQ     .+4
2765  011466  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2766
2767  011470  060200                    ADD     %2,%0
2768  011472  000110                    JMP     @%0
2769  011474  060300                    ADD     %3,%0
2770  011476  020700                    CMP     %7,%0           ;%0 POINTS HERE
2771  011500  001401                    BEQ     .+4
```

```
2772  011502  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2773  011504  000167  000000            JMP     .+4
2774  011510  060500                    ADD     %5,%0
2775  011512  020700                    CMP     %7,%0           ;%0 POINTS HERE
2776  011514  001401                    BEQ     .+4
2777  011516  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2778
2779  011520  000137  011524            JMP     @#.+4
2780  011524  060500                    ADD     %5,%0
2781  011526  020700                    CMP     %7,%0           ;%0 POINTS HERE
2782  011530  001401                    BEQ     .+4
2783  011532  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2784  011534  060400                    ADD     %4,%0
2785
2786
2787  011536  000177  000000            JMP     @.+4
2788  011542  011544                    .+2
2789  011544  020700                    CMP     %7,%0           ;%0 POINTS HERE
2790  011546  001401                    BEQ     .+4
2791  011550  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2792
2793  011552  000160  000010            JMP     A(0)
2794  011556  060500                    ADD     %5,%0
2795  011560  020700                    CMP     %7,%0           ;%0 POINTS HERE
2796  011562  001401                    BEQ     .+4
2797  011564  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2798
2799  011566  060200                    ADD     %2,%0
2800  011570  000110                    JMP     @%0
2801  011572  060300                    ADD     %3,%0
2802  011574  020700                    CMP     %7,%0           ;%0 POINTS HERE
2803  011576  001401                    BEQ     .+4
2804  011600  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2805  011602  000167  000000            JMP     .+4
2806  011606  060500                    ADD     %5,%0
2807  011610  020700                    CMP     %7,%0           ;%0 POINTS HERE
2808  011612  001401                    BEQ     .+4
2809  011614  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2810
2811  011616  000137  011622            JMP     @#.+4
2812  011622  060500                    ADD     %5,%0
2813  011624  020700                    CMP     %7,%0           ;%0 POINTS HERE
2814  011626  001401                    BEQ     .+4
2815  011630  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2816  011632  060400                    ADD     %4,%0
2817
2818
2819  011634  000177  000000            JMP     @.+4
2820  011640  011642                    .+2
2821  011642  020700                    CMP     %7,%0           ;%0 POINTS HERE
2822  011644  001401                    BEQ     .+4
2823  011646  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2824
2825  011650  000160  000010            JMP     A(0)
2826  011654  060500                    ADD     %5,%0
2827  011656  020700                    CMP     %7,%0           ;%0 POINTS HERE
```

```
2828  011660  001401                    BEQ     .+4
2829  011662  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2830
2831  011664  060200                    ADD     %2,%0
2832  011666  000110                    JMP     @%0
2833  011670  060300                    ADD     %3,%0
2834  011672  020700                    CMP     %7,%0           ;%0 POINTS HERE
2835  011674  001401                    BEQ     .+4
2836  011676  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2837  011700  000167  000000            JMP     .+4
2838  011704  060500                    ADD     %5,%0
2839  011706  020700                    CMP     %7,%0           ;%0 POINTS HERE
2840  011710  001401                    BEQ     .+4
2841  011712  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2842
2843  011714  000137  011720            JMP     @#.+4
2844  011720  060500                    ADD     %5,%0
2845  011722  020700                    CMP     %7,%0           ;%0 POINTS HERE
2846  011724  001401                    BEQ     .+4
2847  011726  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2848  011730  060400                    ADD     %4,%0
2849
2850
2851  011732  000177  000000            JMP     @.+4
2852  011736  011740                    .+2
2853  011740  020700                    CMP     %7,%0           ;%0 POINTS HERE
2854  011742  001401                    BEQ     .+4
2855  011744  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2856
2857  011746  000160  000010            JMP     A(0)
2858  011752  060500                    ADD     %5,%0
2859  011754  020700                    CMP     %7,%0           ;%0 POINTS HERE
2860  011756  001401                    BEQ     .+4
2861  011760  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2862
2863  011762  060200                    ADD     %2,%0
2864  011764  000110                    JMP     @%0
2865  011766  060300                    ADD     %3,%0
2866  011770  020700                    CMP     %7,%0           ;%0 POINTS HERE
2867  011772  001401                    BEQ     .+4
2868  011774  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2869  011776  000167  000000            JMP     .+4
2870  012002  060500                    ADD     %5,%0
2871  012004  020700                    CMP     %7,%0           ;%0 POINTS HERE
2872  012006  001401                    BEQ     .+4
2873  012010  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2874
2875  012012  000137  012016            JMP     @#.+4
2876  012016  060500                    ADD     %5,%0
2877  012020  020700                    CMP     %7,%0           ;%0 POINTS HERE
2878  012022  001401                    BEQ     .+4
2879  012024  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2880  012026  060400                    ADD     %4,%0
2881
2882
2883  012030  000177  000000            JMP     @.+4
```

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2884  012034  012036                    .+2
2885  012036  020700                    CMP     %7,%0           ;%0 POINTS HERE
2886  012040  001401                    BEQ     .+4
2887  012042  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2888
2889  012044  000160  000010            JMP     A(0)
2890  012050  060500                    ADD     %5,%0
2891  012052  020700                    CMP     %7,%0           ;%0 POINTS HERE
2892  012054  001401                    BEQ     .+4
2893  012056  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2894
2895  012060  060200                    ADD     %2,%0
2896  012062  000110                    JMP     @%0
2897  012064  060300                    ADD     %3,%0
2898  012066  020700                    CMP     %7,%0           ;%0 POINTS HERE
2899  012070  001401                    BEQ     .+4
2900  012072  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2901  012074  000167  000000            JMP     .+4
2902  012100  060500                    ADD     %5,%0
2903  012102  020700                    CMP     %7,%0           ;%0 POINTS HERE
2904  012104  001401                    BEQ     .+4
2905  012106  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2906
2907  012110  000137  012114            JMP     @#.+4
2908  012114  060500                    ADD     %5,%0
2909  012116  020700                    CMP     %7,%0           ;%0 POINTS HERE
2910  012120  001401                    BEQ     .+4
2911  012122  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2912  012124  060400                    ADD     %4,%0
2913
2914
2915  012126  000177  000000            JMP     @.+4
2916  012132  012134                    .+2
2917  012134  020700                    CMP     %7,%0           ;%0 POINTS HERE
2918  012136  001401                    BEQ     .+4
2919  012140  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2920
2921  012142  000160  000010            JMP     A(0)
2922  012146  060500                    ADD     %5,%0
2923  012150  020700                    CMP     %7,%0           ;%0 POINTS HERE
2924  012152  001401                    BEQ     .+4
2925  012154  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2926
2927  012156  060200                    ADD     %2,%0
2928  012160  000110                    JMP     @%0
2929  012162  060300                    ADD     %3,%0
2930  012164  020700                    CMP     %7,%0           ;%0 POINTS HERE
2931  012166  001401                    BEQ     .+4
2932  012170  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2933  012172  000167  000000            JMP     .+4
2934  012176  060500                    ADD     %5,%0
2935  012200  020700                    CMP     %7,%0           ;%0 POINTS HERE
2936  012202  001401                    BEQ     .+4
2937  012204  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2938
2939  012206  000137  012212            JMP     @#.+4
```

```
2940  012212  060500                    ADD     %5,%0
2941  012214  020700                    CMP     %7,%0           ;%0 POINTS HERE
2942  012216  001401                    BEQ     .+4
2943  012220  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2944  012222  060400                    ADD     %4,%0
2945
2946
2947  012224  000177  000000            JMP     @.+4
2948  012230  012232                    .+2
2949  012232  020700                    CMP     %7,%0           ;%0 POINTS HERE
2950  012234  001401                    BEQ     .+4
2951  012236  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2952
2953  012240  000160  000010            JMP     A(0)
2954  012244  060500                    ADD     %5,%0
2955  012246  020700                    CMP     %7,%0           ;%0 POINTS HERE
2956  012250  001401                    BEQ     .+4
2957  012252  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2958
2959  012254  060200                    ADD     %2,%0
2960  012256  000110                    JMP     @%0
2961  012260  060300                    ADD     %3,%0
2962  012262  020700                    CMP     %7,%0           ;%0 POINTS HERE
2963  012264  001401                    BEQ     .+4
2964  012266  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2965  012270  000167  000000            JMP     .+4
2966  012274  060500                    ADD     %5,%0
2967  012276  020700                    CMP     %7,%0           ;%0 POINTS HERE
2968  012300  001401                    BEQ     .+4
2969  012302  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2970
2971  012304  000137  012310            JMP     @#.+4
2972  012310  060500                    ADD     %5,%0
2973  012312  020700                    CMP     %7,%0           ;%0 POINTS HERE
2974  012314  001401                    BEQ     .+4
2975  012316  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2976  012320  060400                    ADD     %4,%0
2977
2978
2979  012322  000177  000000            JMP     @.+4
2980  012326  012330                    .+2
2981  012330  020700                    CMP     %7,%0           ;%0 POINTS HERE
2982  012332  001401                    BEQ     .+4
2983  012334  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
2984
2985  012336  000160  000010            JMP     A(0)
2986  012342  060500                    ADD     %5,%0
2987  012344  020700                    CMP     %7,%0           ;%0 POINTS HERE
2988  012346  001401                    BEQ     .+4
2989  012350  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2990
2991  012352  060200                    ADD     %2,%0
2992  012354  000110                    JMP     @%0
2993  012356  060300                    ADD     %3,%0
2994  012360  020700                    CMP     %7,%0           ;%0 POINTS HERE
2995  012362  001401                    BEQ     .+4
```

```
2996  012364  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
2997  012366  000167  000000            JMP     .+4
2998  012372  060500                    ADD     %5,%0
2999  012374  020700                    CMP     %7,%0           ;%0 POINTS HERE
3000  012376  001401                    BEQ     .+4
3001  012400  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3002
3003  012402  000137  012406            JMP     @#.+4
3004  012406  060500                    ADD     %5,%0
3005  012410  020700                    CMP     %7,%0           ;%0 POINTS HERE
3006  012412  001401                    BEQ     .+4
3007  012414  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3008  012416  060400                    ADD     %4,%0
3009
3010
3011  012420  000177  000000            JMP     @.+4
3012  012424  012426                    .+2
3013  012426  020700                    CMP     %7,%0           ;%0 POINTS HERE
3014  012430  001401                    BEQ     .+4
3015  012432  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3016
3017  012434  000160  000010            JMP     A(0)
3018  012440  060500                    ADD     %5,%0
3019  012442  020700                    CMP     %7,%0           ;%0 POINTS HERE
3020  012444  001401                    BEQ     .+4
3021  012446  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3022
3023  012450  060200                    ADD     %2,%0
3024  012452  000110                    JMP     @%0
3025  012454  060300                    ADD     %3,%0
3026  012456  020700                    CMP     %7,%0           ;%0 POINTS HERE
3027  012460  001401                    BEQ     .+4
3028  012462  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3029  012464  000167  000000            JMP     .+4
3030  012470  060500                    ADD     %5,%0
3031  012472  020700                    CMP     %7,%0           ;%0 POINTS HERE
3032  012474  001401                    BEQ     .+4
3033  012476  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3034
3035  012500  000137  012504            JMP     @#.+4
3036  012504  060500                    ADD     %5,%0
3037  012506  020700                    CMP     %7,%0           ;%0 POINTS HERE
3038  012510  001401                    BEQ     .+4
3039  012512  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3040  012514  060400                    ADD     %4,%0
3041
3042
3043  012516  000177  000000            JMP     @.+4
3044  012522  012524                    .+2
3045  012524  020700                    CMP     %7,%0           ;%0 POINTS HERE
3046  012526  001401                    BEQ     .+4
3047  012530  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3048
3049  012532  000160  000010            JMP     A(0)
3050  012536  060500                    ADD     %5,%0
3051  012540  020700                    CMP     %7,%0           ;%0 POINTS HERE
```

```
3052  012542  001401                  BEQ     .+4
3053  012544  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3054
3055  012546  060200                  ADD     %2,%0
3056  012550  000110                  JMP     @%0
3057  012552  060300                  ADD     %3,%0
3058  012554  020700                  CMP     %7,%0           ;%0 POINTS HERE
3059  012556  001401                  BEQ     .+4
3060  012560  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3061  012562  000167  000000          JMP     .+4
3062  012566  060500                  ADD     %5,%0
3063  012570  020700                  CMP     %7,%0           ;%0 POINTS HERE
3064  012572  001401                  BEQ     .+4
3065  012574  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3066
3067  012576  000137  012602          JMP     @#.+4
3068  012602  060500                  ADD     %5,%0
3069  012604  020700                  CMP     %7,%0           ;%0 POINTS HERE
3070  012606  001401                  BEQ     .+4
3071  012610  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3072  012612  060400                  ADD     %4,%0
3073
3074
3075  012614  000177  000000          JMP     @.+4
3076  012620  012622                  .+2
3077  012622  020700                  CMP     %7,%0           ;%0 POINTS HERE
3078  012624  001401                  BEQ     .+4
3079  012626  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3080
3081  012630  000160  000010          JMP     A(0)
3082  012634  060500                  ADD     %5,%0
3083  012636  020700                  CMP     %7,%0           ;%0 POINTS HERE
3084  012640  001401                  BEQ     .+4
3085  012642  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3086
3087  012644  060200                  ADD     %2,%0
3088  012646  000110                  JMP     @%0
3089  012650  060300                  ADD     %3,%0
3090  012652  020700                  CMP     %7,%0           ;%0 POINTS HERE
3091  012654  001401                  BEQ     .+4
3092  012656  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3093  012660  000167  000000          JMP     .+4
3094  012664  060500                  ADD     %5,%0
3095  012666  020700                  CMP     %7,%0           ;%0 POINTS HERE
3096  012670  001401                  BEQ     .+4
3097  012672  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3098
3099  012674  000137  012700          JMP     @#.+4
3100  012700  060500                  ADD     %5,%0
3101  012702  020700                  CMP     %7,%0           ;%0 POINTS HERE
3102  012704  001401                  BEQ     .+4
3103  012706  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3104  012710  060400                  ADD     %4,%0
3105
3106
3107  012712  000177  000000          JMP     @.+4
```

```
3108  012716  012720                        .+2
3109  012720  020700                        CMP     %7,%0           ;%0 POINTS HERE
3110  012722  001401                        BEQ     .+4
3111  012724  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3112
3113  012726  000160  000010                JMP     A(0)
3114  012732  060500                        ADD     %5,%0
3115  012734  020700                        CMP     %7,%0           ;%0 POINTS HERE
3116  012736  001401                        BEQ     .+4
3117  012740  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3118
3119  012742  060200                        ADD     %2,%0
3120  012744  000110                        JMP     @%0
3121  012746  060300                        ADD     %3,%0
3122  012750  020700                        CMP     %7,%0           ;%0 POINTS HERE
3123  012752  001401                        BEQ     .+4
3124  012754  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3125  012756  000167  000000                JMP     .+4
3126  012762  060500                        ADD     %5,%0
3127  012764  020700                        CMP     %7,%0           ;%0 POINTS HERE
3128  012766  001401                        BEQ     .+4
3129  012770  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3130
3131  012772  000137  012776                JMP     @#.+4
3132  012776  060500                        ADD     %5,%0
3133  013000  020700                        CMP     %7,%0           ;%0 POINTS HERE
3134  013002  001401                        BEQ     .+4
3135  013004  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3136  013006  060400                        ADD     %4,%0
3137
3138
3139  013010  000177  000000                JMP     @.+4
3140  013014  013016                        .+2
3141  013016  020700                        CMP     %7,%0           ;%0 POINTS HERE
3142  013020  001401                        BEQ     .+4
3143  013022  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3144
3145  013024  000160  000010                JMP     A(0)
3146  013030  060500                        ADD     %5,%0
3147  013032  020700                        CMP     %7,%0           ;%0 POINTS HERE
3148  013034  001401                        BEQ     .+4
3149  013036  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3150
3151  013040  060200                        ADD     %2,%0
3152  013042  000110                        JMP     @%0
3153  013044  060300                        ADD     %3,%0
3154  013046  020700                        CMP     %7,%0           ;%0 POINTS HERE
3155  013050  001401                        BEQ     .+4
3156  013052  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3157  013054  000167  000000                JMP     .+4
3158  013060  060500                        ADD     %5,%0
3159  013062  020700                        CMP     %7,%0           ;%0 POINTS HERE
3160  013064  001401                        BEQ     .+4
3161  013066  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3162
3163  013070  000137  013074                JMP     @#.+4
```

```
3164  013074  060500                    ADD     %5,%0
3165  013076  020700                    CMP     %7,%0           ;%0 POINTS HERE
3166  013100  001401                    BEQ     .+4
3167  013102  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3168  013104  060400                    ADD     %4,%0
3169
3170
3171  013106  000177  000000            JMP     @.+4
3172  013112  013114                    .+2
3173  013114  020700                    CMP     %7,%0           ;%0 POINTS HERE
3174  013116  001401                    BEQ     .+4
3175  013120  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3176
3177  013122  000160  000010            JMP     A(0)
3178  013126  060500                    ADD     %5,%0
3179  013130  020700                    CMP     %7,%0           ;%0 POINTS HERE
3180  013132  001401                    BEQ     .+4
3181  013134  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3182
3183  013136  060200                    ADD     %2,%0
3184  013140  000110                    JMP     @%0
3185  013142  060300                    ADD     %3,%0
3186  013144  020700                    CMP     %7,%0           ;%0 POINTS HERE
3187  013146  001401                    BEQ     .+4
3188  013150  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3189  013152  000167  000000            JMP     .+4
3190  013156  060500                    ADD     %5,%0
3191  013160  020700                    CMP     %7,%0           ;%0 POINTS HERE
3192  013162  001401                    BEQ     .+4
3193  013164  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3194
3195  013166  000137  013172            JMP     @#.+4
3196  013172  060500                    ADD     %5,%0
3197  013174  020700                    CMP     %7,%0           ;%0 POINTS HERE
3198  013176  001401                    BEQ     .+4
3199  013200  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3200  013202  060400                    ADD     %4,%0
3201
3202
3203  013204  000177  000000            JMP     @.+4
3204  013210  013212                    .+2
3205  013212  020700                    CMP     %7,%0           ;%0 POINTS HERE
3206  013214  001401                    BEQ     .+4
3207  013216  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3208
3209  013220  000160  000010            JMP     A(0)
3210  013224  060500                    ADD     %5,%0
3211  013226  020700                    CMP     %7,%0           ;%0 POINTS HERE
3212  013230  001401                    BEQ     .+4
3213  013232  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3214
3215  013234  060200                    ADD     %2,%0
3216  013236  000110                    JMP     @%0
3217  013240  060300                    ADD     %3,%0
3218  013242  020700                    CMP     %7,%0           ;%0 POINTS HERE
3219  013244  001401                    BEQ     .+4
```

```
3220  013246  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3221  013250  000167  000000        JMP     .+4
3222  013254  060500                ADD     %5,%0
3223  013256  020700                CMP     %7,%0           ;%0 POINTS HERE
3224  013260  001401                BEQ     .+4
3225  013262  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3226
3227  013264  000137  013270        JMP     @#.+4
3228  013270  060500                ADD     %5,%0
3229  013272  020700                CMP     %7,%0           ;%0 POINTS HERE
3230  013274  001401                BEQ     .+4
3231  013276  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3232  013300  060400                ADD     %4,%0
3233
3234
3235  013302  000177  000000        JMP     @.+4
3236  013306  013310                .+2
3237  013310  020700                CMP     %7,%0           ;%0 POINTS HERE
3238  013312  001401                BEQ     .+4
3239  013314  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3240
3241  013316  000160  000010        JMP     A(0)
3242  013322  060500                ADD     %5,%0
3243  013324  020700                CMP     %7,%0           ;%0 POINTS HERE
3244  013326  001401                BEQ     .+4
3245  013330  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3246
3247  013332  060200                ADD     %2,%0
3248  013334  000110                JMP     @%0
3249  013336  060300                ADD     %3,%0
3250  013340  020700                CMP     %7,%0           ;%0 POINTS HERE
3251  013342  001401                BEQ     .+4
3252  013344  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3253  013346  000167  000000        JMP     .+4
3254  013352  060500                ADD     %5,%0
3255  013354  020700                CMP     %7,%0           ;%0 POINTS HERE
3256  013356  001401                BEQ     .+4
3257  013360  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3258
3259  013362  000137  013366        JMP     @#.+4
3260  013366  060500                ADD     %5,%0
3261  013370  020700                CMP     %7,%0           ;%0 POINTS HERE
3262  013372  001401                BEQ     .+4
3263  013374  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3264  013376  060400                ADD     %4,%0
3265
3266
3267  013400  000177  000000        JMP     @.+4
3268  013404  013406                .+2
3269  013406  020700                CMP     %7,%0           ;%0 POINTS HERE
3270  013410  001401                BEQ     .+4
3271  013412  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3272
3273  013414  000160  000010        JMP     A(0)
3274  013420  060500                ADD     %5,%0
3275  013422  020700                CMP     %7,%0           ;%0 POINTS HERE
```

```
3276  013424  001401                BEQ     .+4
3277  013426  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3278
3279  013430  060200                ADD     %2,%0
3280  013432  000110                JMP     @%0
3281  013434  060300                ADD     %3,%0
3282  013436  020700                CMP     %7,%0           ;%0 POINTS HERE
3283  013440  001401                BEQ     .+4
3284  013442  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3285  013444  000167  000000        JMP     .+4
3286  013450  060500                ADD     %5,%0
3287  013452  020700                CMP     %7,%0           ;%0 POINTS HERE
3288  013454  001401                BEQ     .+4
3289  013456  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3290
3291  013460  000137  013464        JMP     @#.+4
3292  013464  060500                ADD     %5,%0
3293  013466  020700                CMP     %7,%0           ;%0 POINTS HERE
3294  013470  001401                BEQ     .+4
3295  013472  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3296  013474  060400                ADD     %4,%0
3297
3298
3299  013476  000177  000000        JMP     @.+4
3300  013502  013504                .+2
3301  013504  020700                CMP     %7,%0           ;%0 POINTS HERE
3302  013506  001401                BEQ     .+4
3303  013510  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3304
3305  013512  000160  000010        JMP     A(0)
3306  013516  060500                ADD     %5,%0
3307  013520  020700                CMP     %7,%0           ;%0 POINTS HERE
3308  013522  001401                BEQ     .+4
3309  013524  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3310
3311  013526  060200                ADD     %2,%0
3312  013530  000110                JMP     @%0
3313  013532  060300                ADD     %3,%0
3314  013534  020700                CMP     %7,%0           ;%0 POINTS HERE
3315  013536  001401                BEQ     .+4
3316  013540  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3317  013542  000167  000000        JMP     .+4
3318  013546  060500                ADD     %5,%0
3319  013550  020700                CMP     %7,%0           ;%0 POINTS HERE
3320  013552  001401                BEQ     .+4
3321  013554  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3322
3323  013556  000137  013562        JMP     @#.+4
3324  013562  060500                ADD     %5,%0
3325  013564  020700                CMP     %7,%0           ;%0 POINTS HERE
3326  013566  001401                BEQ     .+4
3327  013570  000000                HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3328  013572  060400                ADD     %4,%0
3329
3330
3331  013574  000177  000000        JMP     @.+4
```

```
3332  013600  013602                  .+2
3333  013602  020700                  CMP     %7,%0           ;%0 POINTS HERE
3334  013604  001401                  BEQ     .+4
3335  013606  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3336
3337  013610  000160  000010          JMP     A(0)
3338  013614  060500                  ADD     %5,%0
3339  013616  020700                  CMP     %7,%0           ;%0 POINTS HERE
3340  013620  001401                  BEQ     .+4
3341  013622  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3342
3343  013624  060200                  ADD     %2,%0
3344  013626  000110                  JMP     @%0
3345  013630  060300                  ADD     %3,%0
3346  013632  020700                  CMP     %7,%0           ;%0 POINTS HERE
3347  013634  001401                  BEQ     .+4
3348  013636  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3349  013640  000167  000000          JMP     .+4
3350  013644  060500                  ADD     %5,%0
3351  013646  020700                  CMP     %7,%0           ;%0 POINTS HERE
3352  013650  001401                  BEQ     .+4
3353  013652  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3354
3355  013654  000137  013660          JMP     @#.+4
3356  013660  060500                  ADD     %5,%0
3357  013662  020700                  CMP     %7,%0           ;%0 POINTS HERE
3358  013664  001401                  BEQ     .+4
3359  013666  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3360  013670  060400                  ADD     %4,%0
3361
3362
3363  013672  000177  000000          JMP     @.+4
3364  013676  013700                  .+2
3365  013700  020700                  CMP     %7,%0           ;%0 POINTS HERE
3366  013702  001401                  BEQ     .+4
3367  013704  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3368
3369  013706  000160  000010          JMP     A(0)
3370  013712  060500                  ADD     %5,%0
3371  013714  020700                  CMP     %7,%0           ;%0 POINTS HERE
3372  013716  001401                  BEQ     .+4
3373  013720  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3374
3375  013722  060200                  ADD     %2,%0
3376  013724  000110                  JMP     @%0
3377  013726  060300                  ADD     %3,%0
3378  013730  020700                  CMP     %7,%0           ;%0 POINTS HERE
3379  013732  001401                  BEQ     .+4
3380  013734  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3381  013736  000167  000000          JMP     .+4
3382  013742  060500                  ADD     %5,%0
3383  013744  020700                  CMP     %7,%0           ;%0 POINTS HERE
3384  013746  001401                  BEQ     .+4
3385  013750  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3386
3387  013752  000137  013756          JMP     @#.+4
```

```
3388  013756  060500                    ADD     %5,%0
3389  013760  020700                    CMP     %7,%0       ;%0 POINTS HERE
3390  013762  001401                    BEQ     .+4
3391  013764  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
3392  013766  060400                    ADD     %4,%0
3393
3394
3395  013770  000177  000000            JMP     @.+4
3396  013774  013776                    .+2
3397  013776  020700                    CMP     %7,%0       ;%0 POINTS HERE
3398  014000  001401                    BEQ     .+4
3399  014002  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3400
3401  014004  000160  000010            JMP     A(0)
3402  014010  060500                    ADD     %5,%0
3403  014012  020700                    CMP     %7,%0       ;%0 POINTS HERE
3404  014014  001401                    BEQ     .+4
3405  014016  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
3406
3407  014020  060200                    ADD     %2,%0
3408  014022  000110                    JMP     @%0
3409  014024  060300                    ADD     %3,%0
3410  014026  020700                    CMP     %7,%0       ;%0 POINTS HERE
3411  014030  001401                    BEQ     .+4
3412  014032  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
3413  014034  000167  000000            JMP     .+4
3414  014040  060500                    ADD     %5,%0
3415  014042  020700                    CMP     %7,%0       ;%0 POINTS HERE
3416  014044  001401                    BEQ     .+4
3417  014046  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
3418
3419  014050  000137  014054            JMP     @#.+4
3420  014054  060500                    ADD     %5,%0
3421  014056  020700                    CMP     %7,%0       ;%0 POINTS HERE
3422  014060  001401                    BEQ     .+4
3423  014062  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
3424  014064  060400                    ADD     %4,%0
3425
3426
3427  014066  000177  000000            JMP     @.+4
3428  014072  014074                    .+2
3429  014074  020700                    CMP     %7,%0       ;%0 POINTS HERE
3430  014076  001401                    BEQ     .+4
3431  014100  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3432
3433  014102  000160  000010            JMP     A(0)
3434  014106  060500                    ADD     %5,%0
3435  014110  020700                    CMP     %7,%0       ;%0 POINTS HERE
3436  014112  001401                    BEQ     .+4
3437  014114  000000                    HLT                 ;JMP BEFORE VALUE IN REGISTER 0 BAD
3438
3439  014116  060200                    ADD     %2,%0
3440  014120  000110                    JMP     @%0
3441  014122  060300                    ADD     %3,%0
3442  014124  020700                    CMP     %7,%0       ;%0 POINTS HERE
3443  014126  001401                    BEQ     .+4
```

```
3444  014130  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3445  014132  000167  000000            JMP     .+4
3446  014136  060500                    ADD     %5,%0
3447  014140  020700                    CMP     %7,%0           ;%0 POINTS HERE
3448  014142  001401                    BEQ     .+4
3449  014144  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3450
3451  014146  000137  014152            JMP     @#.+4
3452  014152  060500                    ADD     %5,%0
3453  014154  020700                    CMP     %7,%0           ;%0 POINTS HERE
3454  014156  001401                    BEQ     .+4
3455  014160  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3456  014162  060400                    ADD     %4,%0
3457
3458
3459  014164  000177  000000            JMP     @.+4
3460  014170  014172                    .+2
3461  014172  020700                    CMP     %7,%0           ;%0 POINTS HERE
3462  014174  001401                    BEQ     .+4
3463  014176  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3464
3465  014200  000160  000010            JMP     A(0)
3466  014204  060500                    ADD     %5,%0
3467  014206  020700                    CMP     %7,%0           ;%0 POINTS HERE
3468  014210  001401                    BEQ     .+4
3469  014212  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3470
3471  014214  060200                    ADD     %2,%0
3472  014216  000110                    JMP     @%0
3473  014220  060300                    ADD     %3,%0
3474  014222  020700                    CMP     %7,%0           ;%0 POINTS HERE
3475  014224  001401                    BEQ     .+4
3476  014226  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3477  014230  000167  000000            JMP     .+4
3478  014234  060500                    ADD     %5,%0
3479  014236  020700                    CMP     %7,%0           ;%0 POINTS HERE
3480  014240  001401                    BEQ     .+4
3481  014242  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3482
3483  014244  000137  014250            JMP     @#.+4
3484  014250  060500                    ADD     %5,%0
3485  014252  020700                    CMP     %7,%0           ;%0 POINTS HERE
3486  014254  001401                    BEQ     .+4
3487  014256  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3488  014260  060400                    ADD     %4,%0
3489
3490
3491  014262  000177  000000            JMP     @.+4
3492  014266  014270                    .+2
3493  014270  020700                    CMP     %7,%0           ;%0 POINTS HERE
3494  014272  001401                    BEQ     .+4
3495  014274  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3496
3497  014276  000160  000010            JMP     A(0)
3498  014302  060500                    ADD     %5,%0
3499  014304  020700                    CMP     %7,%0           ;%0 POINTS HERE
```

```
3500  014306  001401                    BEQ     .+4
3501  014310  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3502
3503  014312  060200                    ADD     %2,%0
3504  014314  000110                    JMP     @%0
3505  014316  060300                    ADD     %3,%0
3506  014320  020700                    CMP     %7,%0           ;%0 POINTS HERE
3507  014322  001401                    BEQ     .+4
3508  014324  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3509  014326  000167  000000            JMP     .+4
3510  014332  060500                    ADD     %5,%0
3511  014334  020700                    CMP     %7,%0           ;%0 POINTS HERE
3512  014336  001401                    BEQ     .+4
3513  014340  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3514
3515  014342  000137  014346            JMP     @#.+4
3516  014346  060500                    ADD     %5,%0
3517  014350  020700                    CMP     %7,%0           ;%0 POINTS HERE
3518  014352  001401                    BEQ     .+4
3519  014354  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3520  014356  060400                    ADD     %4,%0
3521
3522
3523  014360  000177  000000            JMP     @.+4
3524  014364  014366                    .+2
3525  014366  020700                    CMP     %7,%0           ;%0 POINTS HERE
3526  014370  001401                    BEQ     .+4
3527  014372  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3528
3529  014374  000160  000010            JMP     A(0)
3530  014400  060500                    ADD     %5,%0
3531  014402  020700                    CMP     %7,%0           ;%0 POINTS HERE
3532  014404  001401                    BEQ     .+4
3533  014406  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3534
3535  014410  060200                    ADD     %2,%0
3536  014412  000110                    JMP     @%0
3537  014414  060300                    ADD     %3,%0
3538  014416  020700                    CMP     %7,%0           ;%0 POINTS HERE
3539  014420  001401                    BEQ     .+4
3540  014422  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3541  014424  000167  000000            JMP     .+4
3542  014430  060500                    ADD     %5,%0
3543  014432  020700                    CMP     %7,%0           ;%0 POINTS HERE
3544  014434  001401                    BEQ     .+4
3545  014436  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3546
3547  014440  000137  014444            JMP     @#.+4
3548  014444  060500                    ADD     %5,%0
3549  014446  020700                    CMP     %7,%0           ;%0 POINTS HERE
3550  014450  001401                    BEQ     .+4
3551  014452  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3552  014454  060400                    ADD     %4,%0
3553
3554
3555  014456  000177  000000            JMP     @.+4
```

```
3556  014462  014464                        .+2
3557  014464  020700                        CMP     %7,%0           ;%0 POINTS HERE
3558  014466  001401                        BEQ     .+4
3559  014470  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3560
3561  014472  000160  000010                JMP     A(0)
3562  014476  060500                        ADD     %5,%0
3563  014500  020700                        CMP     %7,%0           ;%0 POINTS HERE
3564  014502  001401                        BEQ     .+4
3565  014504  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3566
3567  014506  060200                        ADD     %2,%0
3568  014510  000110                        JMP     @%0
3569  014512  060300                        ADD     %3,%0
3570  014514  020700                        CMP     %7,%0           ;%0 POINTS HERE
3571  014516  001401                        BEQ     .+4
3572  014520  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3573  014522  000167  000000                JMP     .+4
3574  014526  060500                        ADD     %5,%0
3575  014530  020700                        CMP     %7,%0           ;%0 POINTS HERE
3576  014532  001401                        BEQ     .+4
3577  014534  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3578
3579  014536  000137  014542                JMP     @#.+4
3580  014542  060500                        ADD     %5,%0
3581  014544  020700                        CMP     %7,%0           ;%0 POINTS HERE
3582  014546  001401                        BEQ     .+4
3583  014550  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3584  014552  060400                        ADD     %4,%0
3585
3586
3587  014554  000177  000000                JMP     @.+4
3588  014560  014562                        .+2
3589  014562  020700                        CMP     %7,%0           ;%0 POINTS HERE
3590  014564  001401                        BEQ     .+4
3591  014566  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3592
3593  014570  000160  000010                JMP     A(0)
3594  014574  060500                        ADD     %5,%0
3595  014576  020700                        CMP     %7,%0           ;%0 POINTS HERE
3596  014600  001401                        BEQ     .+4
3597  014602  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3598
3599  014604  060200                        ADD     %2,%0
3600  014606  000110                        JMP     @%0
3601  014610  060300                        ADD     %3,%0
3602  014612  020700                        CMP     %7,%0           ;%0 POINTS HERE
3603  014614  001401                        BEQ     .+4
3604  014616  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3605  014620  000167  000000                JMP     .+4
3606  014624  060500                        ADD     %5,%0
3607  014626  020700                        CMP     %7,%0           ;%0 POINTS HERE
3608  014630  001401                        BEQ     .+4
3609  014632  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3610
3611  014634  000137  014640                JMP     @#.+4
```

```
3612  014640  060500                    ADD     %5,%0
3613  014642  020700                    CMP     %7,%0           ;%0 POINTS HERE
3614  014644  001401                    BEQ     .+4
3615  014646  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3616  014650  060400                    ADD     %4,%0
3617
3618
3619  014652  000177  000000            JMP     @.+4
3620  014656  014660                    .+2
3621  014660  020700                    CMP     %7,%0           ;%0 POINTS HERE
3622  014662  001401                    BEQ     .+4
3623  014664  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3624
3625  014666  000160  000010            JMP     A(0)
3626  014672  060500                    ADD     %5,%0
3627  014674  020700                    CMP     %7,%0           ;%0 POINTS HERE
3628  014676  001401                    BEQ     .+4
3629  014700  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3630
3631  014702  060200                    ADD     %2,%0
3632  014704  000110                    JMP     @%0
3633  014706  060300                    ADD     %3,%0
3634  014710  020700                    CMP     %7,%0           ;%0 POINTS HERE
3635  014712  001401                    BEQ     .+4
3636  014714  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3637  014716  000167  000000            JMP     .+4
3638  014722  060500                    ADD     %5,%0
3639  014724  020700                    CMP     %7,%0           ;%0 POINTS HERE
3640  014726  001401                    BEQ     .+4
3641  014730  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3642
3643  014732  000137  014736            JMP     @#.+4
3644  014736  060500                    ADD     %5,%0
3645  014740  020700                    CMP     %7,%0           ;%0 POINTS HERE
3646  014742  001401                    BEQ     .+4
3647  014744  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3648  014746  060400                    ADD     %4,%0
3649
3650
3651  014750  000177  000000            JMP     @.+4
3652  014754  014756                    .+2
3653  014756  020700                    CMP     %7,%0           ;%0 POINTS HERE
3654  014760  001401                    BEQ     .+4
3655  014762  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3656
3657  014764  000160  000010            JMP     A(0)
3658  014770  060500                    ADD     %5,%0
3659  014772  020700                    CMP     %7,%0           ;%0 POINTS HERE
3660  014774  001401                    BEQ     .+4
3661  014776  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3662
3663  015000  060200                    ADD     %2,%0
3664  015002  000110                    JMP     @%0
3665  015004  060300                    ADD     %3,%0
3666  015006  020700                    CMP     %7,%0           ;%0 POINTS HERE
3667  015010  001401                    BEQ     .+4
```

```
3668  015012  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3669  015014  000167  000000            JMP     .+4
3670  015020  060500                    ADD     %5,%0
3671  015022  020700                    CMP     %7,%0           ;%0 POINTS HERE
3672  015024  001401                    BEQ     .+4
3673  015026  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3674
3675  015030  000137  015034            JMP     @#.+4
3676  015034  060500                    ADD     %5,%0
3677  015036  020700                    CMP     %7,%0           ;%0 POINTS HERE
3678  015040  001401                    BEQ     .+4
3679  015042  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3680  015044  060400                    ADD     %4,%0
3681
3682
3683  015046  000177  000000            JMP     @.+4
3684  015052  015054                    .+2
3685  015054  020700                    CMP     %7,%0           ;%0 POINTS HERE
3686  015056  001401                    BEQ     .+4
3687  015060  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3688
3689  015062  000163  000010            JMP     A(0)
3690  015066  060500                    ADD     %5,%0
3691  015070  020700                    CMP     %7,%0           ;%0 POINTS HERE
3692  015072  001401                    BEQ     .+4
3693  015074  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3694
3695  015076  060200                    ADD     %2,%0
3696  015100  000110                    JMP     @%0
3697  015102  060300                    ADD     %3,%0
3698  015104  020700                    CMP     %7,%0           ;%0 POINTS HERE
3699  015106  001401                    BEQ     .+4
3700  015110  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3701  015112  000167  000000            JMP     .+4
3702  015116  060500                    ADD     %5,%0
3703  015120  020700                    CMP     %7,%0           ;%0 POINTS HERE
3704  015122  001401                    BEQ     .+4
3705  015124  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3706
3707  015126  000137  015132            JMP     @#.+4
3708  015132  060500                    ADD     %5,%0
3709  015134  020700                    CMP     %7,%0           ;%0 POINTS HERE
3710  015136  001401                    BEQ     .+4
3711  015140  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3712  015142  060400                    ADD     %4,%0
3713
3714
3715  015144  000177  000000            JMP     @.+4
3716  015150  015152                    .+2
3717  015152  020700                    CMP     %7,%0           ;%0 POINTS HERE
3718  015154  001401                    BEQ     .+4
3719  015156  000000                    HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3720
3721  015160  000160  000010            JMP     A(0)
3722  015164  060500                    ADD     %5,%0
3723  015166  020700                    CMP     %7,%0           ;%0 POINTS HERE
```

```
3724  015170  001401                    BEQ     .+4
3725  015172  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER 0 BAD
3726
3727  015174  060200                    ADD     %2,%0
3728  015176  000110                    JMP     @%0
3729  015200  060300                    ADD     %3,%0
3730  015202  020700                    CMP     %7,%0   ;%0 POINTS HERE
3731  015204  001401                    BEQ     .+4
3732  015206  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER 0 BAD
3733  015210  000167  000000            JMP     .+4
3734  015214  060500                    ADD     %5,%0
3735  015216  020700                    CMP     %7,%0   ;%0 POINTS HERE
3736  015220  001401                    BEQ     .+4
3737  015222  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER 0 BAD
3738
3739  015224  000137  015230            JMP     @#.+4
3740  015230  060500                    ADD     %5,%0
3741  015232  020700                    CMP     %7,%0   ;%0 POINTS HERE
3742  015234  001401                    BEQ     .+4
3743  015236  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER 0 BAD
3744  015240  060400                    ADD     %4,%0
3745
3746
3747  015242  000177  000000            JMP     @.+4
3748  015246  015250                    .+2
3749  015250  020700                    CMP     %7,%0   ;%0 POINTS HERE
3750  015252  001401                    BEQ     .+4
3751  015254  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3752
3753  015256  000160  000010            JMP     A(0)
3754  015262  060500                    ADD     %5,%0
3755  015264  020700                    CMP     %7,%0   ;%0 POINTS HERE
3756  015266  001401                    BEQ     .+4
3757  015270  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER 0 BAD
3758
3759  015272  060200                    ADD     %2,%0
3760  015274  000110                    JMP     @%0
3761  015276  060300                    ADD     %3,%0
3762  015300  020700                    CMP     %7,%0   ;%0 POINTS HERE
3763  015302  001401                    BEQ     .+4
3764  015304  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER 0 BAD
3765  015306  000167  000000            JMP     .+4
3766  015312  060500                    ADD     %5,%0
3767  015314  020700                    CMP     %7,%0   ;%0 POINTS HERE
3768  015316  001401                    BEQ     .+4
3769  015320  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER 0 BAD
3770
3771  015322  000137  015326            JMP     @#.+4
3772  015326  060500                    ADD     %5,%0
3773  015330  020700                    CMP     %7,%0   ;%0 POINTS HERE
3774  015332  001401                    BEQ     .+4
3775  015334  000000                    HLT             ;JMP BEFORE VALUE IN REGISTER 0 BAD
3776  015336  060400                    ADD     %4,%0
3777
3778
3779  015340  000177  000000            JMP     @.+4
```

```
3780  015344  015346                        .+2
3781  015346  020700                        CMP     %7,%0           ;%0 POINTS HERE
3782  015350  001401                        BEQ     .+4
3783  015352  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3784
3785  015354  000160  000010                JMP     A(0)
3786  015360  060500                        ADD     %5,%0
3787  015362  020700                        CMP     %7,%0           ;%0 POINTS HERE
3788  015364  001401                        BEQ     .+4
3789  015366  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3790
3791  015370  060200                        ADD     %2,%0
3792  015372  000110                        JMP     @%0
3793  015374  060300                        ADD     %3,%0
3794  015376  020700                        CMP     %7,%0           ;%0 POINTS HERE
3795  015400  001401                        BEQ     .+4
3796  015402  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3797  015404  000167  000000                JMP     .+4
3798  015410  060500                        ADD     %5,%0
3799  015412  020700                        CMP     %7,%0           ;%0 POINTS HERE
3800  015414  001401                        BEQ     .+4
3801  015416  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3802
3803  015420  000137  015424                JMP     @#.+4
3804  015424  060500                        ADD     %5,%0
3805  015426  020700                        CMP     %7,%0           ;%0 POINTS HERE
3806  015430  001401                        BEQ     .+4
3807  015432  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3808  015434  060400                        ADD     %4,%0
3809
3810
3811  015436  000177  000000                JMP     @.+4
3812  015442  015444                        .+2
3813  015444  020700                        CMP     %7,%0           ;%0 POINTS HERE
3814  015446  001401                        BEQ     .+4
3815  015450  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3816
3817  015452  000160  000010                JMP     A(0)
3818  015456  060500                        ADD     %5,%0
3819  015460  020700                        CMP     %7,%0           ;%0 POINTS HERE
3820  015462  001401                        BEQ     .+4
3821  015464  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3822
3823  015466  060200                        ADD     %2,%0
3824  015470  000110                        JMP     @%0
3825  015472  060300                        ADD     %3,%0
3826  015474  020700                        CMP     %7,%0           ;%0 POINTS HERE
3827  015476  001401                        BEQ     .+4
3828  015500  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3829  015502  000167  000000                JMP     .+4
3830  015506  060500                        ADD     %5,%0
3831  015510  020700                        CMP     %7,%0           ;%0 POINTS HERE
3832  015512  001401                        BEQ     .+4
3833  015514  000000                        HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3834
3835  015516  000137  015522                JMP     @#.+4
```

```
3836  015522  060500                  ADD     %5,%0
3837  015524  020700                  CMP     %7,%0           ;%0 POINTS HERE
3838  015526  001401                  BEQ     .+4
3839  015530  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3840  015532  060400                  ADD     %4,%0
3841
3842
3843  015534  000177  000000          JMP     @.+4
3844  015540  015542                  .+2
3845  015542  020700                  CMP     %7,%0           ;%0 POINTS HERE
3846  015544  001401                  BEQ     .+4
3847  015546  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3848
3849  015550  000160  000010          JMP     A(0)
3850  015554  060500                  ADD     %5,%0
3851  015556  020700                  CMP     %7,%0           ;%0 POINTS HERE
3852  015560  001401                  BEQ     .+4
3853  015562  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3854
3855  015564  060200                  ADD     %2,%0
3856  015566  000110                  JMP     @%0
3857  015570  060300                  ADD     %3,%0
3858  015572  020700                  CMP     %7,%0           ;%0 POINTS HERE
3859  015574  001401                  BEQ     .+4
3860  015576  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3861  015600  000167  000000          JMP     .+4
3862  015604  060500                  ADD     %5,%0
3863  015606  020700                  CMP     %7,%0           ;%0 POINTS HERE
3864  015610  001401                  BEQ     .+4
3865  015612  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3866
3867  015614  000137  015620          JMP     @#.+4
3868  015620  060500                  ADD     %5,%0
3869  015622  020700                  CMP     %7,%0           ;%0 POINTS HERE
3870  015624  001401                  BEQ     .+4
3871  015626  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3872  015630  060400                  ADD     %4,%0
3873
3874
3875  015632  000177  000000          JMP     @.+4
3876  015636  015640                  .+2
3877  015640  020700                  CMP     %7,%0           ;%0 POINTS HERE
3878  015642  001401                  BEQ     .+4
3879  015644  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER ZERO BAD
3880
3881  015646  000160  000010          JMP     A(0)
3882  015652  060500                  ADD     %5,%0
3883  015654  020700                  CMP     %7,%0           ;%0 POINTS HERE
3884  015656  001401                  BEQ     .+4
3885  015660  000000                  HLT                     ;JMP BEFORE VALUE IN REGISTER 0 BAD
3886
3887  015662  060200                  ADD     %2,%0
```

I06


```
 3888
 3889  015664  012701  015674                  MOV     #.+10,%1
 3890  015670  000141                          JMP     -(1)            ;INSTRUCTION UNDER TEST
 3891  015672  000401                          BR      .+4
 3892  015674  000000                          HLT                     ;AUTO DECREMENT FAILED
 3893  015676  020127  015672                  CMP     %1,#.-4
 3894  015702  001401                          BEQ     .+4
 3895  015704  000000                          HLT                     ;IMPROPER AUTO DECREMENT
 3896  015706  005267  000026                  INC     LOOP
 3897  015712  100010                          BPL     FIN
 3898  015714  005067  000020                  CLR     LOOP
 3899  015720  012737  000207  177566          MOV     #207,@#177566
 3900  015726  105737  177564                  TSTB    @#177564
 3901  015732  100375                          BPL     .-4
 3902  015734  000137  000200          FIN:    JMP     @#BEGIN
 3903  015740  000000                  LOOP:   0
 3904          000001                          .END
```

JO6


```
A      = 000010          264#   329   361   393   425   457   489   521   553   585   617   649   681
                         713    745   777   809   841   873   905   937   969  1001  1033  1065  1097
                        1129   1161  1193  1225  1257  1289  1321  1353  1385  1417  1449  1481  1513
                        1545   1577  1609  1641  1673  1705  1737  1769  1801  1833  1865  1897  1929
                        1961   1993  2025  2057  2089  2121  2153  2185  2217  2249  2281  2313  2345
                        2377   2409  2441  2473  2505  2537  2569  2601  2633  2665  2697  2729  2761
                        2793   2825  2857  2889  2921  2953  2985  3017  3049  3081  3113  3145  3177
                        3209   3241  3273  3305  3337  3369  3401  3433  3465  3497  3529  3561  3593
                        3625   3657  3689  3721  3753  3785  3817  3849  3881
BEGIN    000200          299#  3902
FIN      015734         3897   3902#
HLT    = 000000          263#   308   313   319   327   333   340   345   351   359   365   372   377
                         383    391   397   404   409   415   423   429   436   441   447   455   461
                         468    473   479   487   493   500   505   511   519   525   532   537   543
                         551    557   564   569   575   583   589   596   601   607   615   621   628
                         633    639   647   653   660   665   671   679   685   692   697   703   711
                         717    724   729   735   743   749   756   761   767   775   781   788   793
                         799    807   813   820   825   831   839   845   852   857   863   871   877
                         884    889   895   903   909   916   921   927   935   941   948   953   959
                         967    973   980   985   991   999  1005  1012  1017  1023  1031  1037  1044
                        1049   1055  1063  1069  1076  1081  1087  1095  1101  1108  1113  1119  1127
                        1133   1140  1145  1151  1159  1165  1172  1177  1183  1191  1197  1204  1209
                        1215   1223  1229  1236  1241  1247  1255  1261  1268  1273  1279  1287  1293
                        1300   1305  1311  1319  1325  1332  1337  1343  1351  1357  1364  1369  1375
                        1383   1389  1396  1401  1407  1415  1421  1428  1433  1439  1447  1453  1460
                        1465   1471  1479  1485  1492  1497  1503  1511  1517  1524  1529  1535  1543
                        1549   1556  1561  1567  1575  1581  1588  1593  1599  1607  1613  1620  1625
                        1631   1639  1645  1652  1657  1663  1671  1677  1684  1689  1695  1703  1709
                        1716   1721  1727  1735  1741  1748  1753  1759  1767  1773  1780  1785  1791
                        1799   1805  1812  1817  1823  1831  1837  1844  1849  1855  1863  1869  1876
                        1881   1887  1895  1901  1908  1913  1919  1927  1933  1940  1945  1951  1959
                        1965   1972  1977  1983  1991  1997  2004  2009  2015  2023  2029  2036  2041
                        2047   2055  2061  2068  2073  2079  2087  2093  2100  2105  2111  2119  2125
                        2132   2137  2143  2151  2157  2164  2169  2175  2183  2189  2196  2201  2207
                        2215   2221  2228  2233  2239  2247  2253  2260  2265  2271  2279  2285  2292
                        2297   2303  2311  2317  2324  2329  2335  2343  2349  2356  2361  2367  2375
                        2381   2388  2393  2399  2407  2413  2420  2425  2431  2439  2445  2452  2457
                        2463   2471  2477  2484  2489  2495  2503  2509  2516  2521  2527  2535  2541
                        2548   2553  2559  2567  2573  2580  2585  2591  2599  2605  2612  2617  2623
                        2631   2637  2644  2649  2655  2663  2669  2676  2681  2687  2695  2701  2708
                        2713   2719  2727  2733  2740  2745  2751  2759  2765  2772  2777  2783  2791
                        2797   2804  2809  2815  2823  2829  2836  2841  2847  2855  2861  2868  2873
                        2879   2887  2893  2900  2905  2911  2919  2925  2932  2937  2943  2951  2957
                        2964   2969  2975  2983  2989  2996  3001  3007  3015  3021  3028  3033  3039
                        3047   3053  3060  3065  3071  3079  3085  3092  3097  3103  3111  3117  3124
                        3129   3135  3143  3149  3156  3161  3167  3175  3181  3188  3193  3199  3207
                        3213   3220  3225  3231  3239  3245  3252  3257  3263  3271  3277  3284  3289
                        3295   3303  3309  3316  3321  3327  3335  3341  3348  3353  3359  3367  3373
                        3380   3385  3391  3399  3405  3412  3417  3423  3431  3437  3444  3449  3455
                        3463   3469  3476  3481  3487  3495  3501  3508  3513  3519  3527  3533  3540
                        3545   3551  3559  3565  3572  3577  3583  3591  3597  3604  3609  3615  3623
                        3629   3636  3641  3647  3655  3661  3668  3673  3679  3687  3693  3700  3705
                        3711   3719  3725  3732  3737  3743  3751  3757  3764  3769  3775  3783  3789
                        3796   3801  3807  3815  3821  3828  3833  3839  3847  3853  3860  3865  3871
                        3879   3885  3892  3895
LOOP     015740         3896*  3898*  3903#
```

DOLA.P11 CROSS REFERENCE TABLE -- USER SYMBOLS

START 000220
. = 015742

299 303#
265# 266 268 270 272 274 276 278 280 282 284 286 288
290 292 294 296 298# 307 309 312 315 318 323 324 326
332 339 341 344 347 350 355 356 358 364 371 373 376
379 382 387 388 390 396 403 405 408 411 414 419 420
422 428 435 437 440 443 446 451 452 454 460 467 469
472 475 478 483 484 486 492 499 501 504 507 510 515
516 518 524 531 533 536 539 542 547 548 550 556 563
565 568 571 574 579 580 582 588 595 597 600 603 606
611 612 614 620 627 629 632 635 638 643 644 646 652
659 661 664 667 670 675 676 678 684 691 693 696 699
702 707 708 710 716 723 725 728 731 734 739 740 742
748 755 757 760 763 766 771 772 774 780 787 789 792
795 798 803 804 806 812 819 821 824 827 830 835 836
838 844 851 853 856 859 862 867 868 870 876 883 885
888 891 894 899 900 902 908 915 917 920 923 926 931
932 934 940 947 949 952 955 958 963 964 966 972 979
981 984 987 990 995 996 998 1004 1011 1013 1016 1019 1022
1027 1028 1030 1036 1043 1045 1048 1051 1054 1059 1060 1062 1068
1075 1077 1080 1083 1086 1091 1092 1094 1100 1107 1109 1112 1115
1118 1123 1124 1126 1132 1139 1141 1144 1147 1150 1155 1156 1158
1164 1171 1173 1176 1179 1182 1187 1188 1190 1196 1203 1205 1208
1211 1214 1219 1220 1222 1228 1235 1237 1240 1243 1246 1251 1252
1254 1260 1267 1269 1272 1275 1278 1283 1284 1286 1292 1299 1301
1304 1307 1310 1315 1316 1318 1324 1331 1333 1336 1339 1342 1347
1348 1350 1356 1363 1365 1368 1371 1374 1379 1380 1382 1388 1395
1397 1400 1403 1406 1411 1412 1414 1420 1427 1429 1432 1435 1438
1443 1444 1446 1452 1459 1461 1464 1467 1470 1475 1476 1478 1484
1491 1493 1496 1499 1502 1507 1508 1510 1516 1523 1525 1528 1531
1534 1539 1540 1542 1548 1555 1557 1560 1563 1566 1571 1572 1574
1580 1587 1589 1592 1595 1598 1603 1604 1606 1612 1619 1621 1624
1627 1630 1635 1636 1638 1644 1651 1653 1656 1659 1662 1667 1668
1670 1676 1683 1685 1688 1691 1694 1699 1700 1702 1708 1715 1717
1720 1723 1726 1731 1732 1734 1740 1747 1749 1752 1755 1758 1763
1764 1766 1772 1779 1781 1784 1787 1790 1795 1796 1798 1804 1811
1813 1816 1819 1822 1827 1828 1830 1836 1843 1845 1848 1851 1854
1859 1860 1862 1868 1875 1877 1880 1883 1886 1891 1892 1894 1900
1907 1909 1912 1915 1918 1923 1924 1926 1932 1939 1941 1944 1947
1950 1955 1956 1958 1964 1971 1973 1976 1979 1982 1987 1988 1990
1996 2003 2005 2008 2011 2014 2019 2020 2022 2028 2035 2037 2040
2043 2046 2051 2052 2054 2060 2067 2069 2072 2075 2078 2083 2084
2086 2092 2099 2101 2104 2107 2110 2115 2116 2118 2124 2131 2133
2136 2139 2142 2147 2148 2150 2156 2163 2165 2168 2171 2174 2179
2180 2182 2188 2195 2197 2200 2203 2206 2211 2212 2214 2220 2227
2229 2232 2235 2238 2243 2244 2246 2252 2259 2261 2264 2267 2270
2275 2276 2278 2284 2291 2293 2296 2299 2302 2307 2308 2310 2316
2323 2325 2328 2331 2334 2339 2340 2342 2348 2355 2357 2360 2363
2366 2371 2372 2374 2380 2387 2389 2392 2395 2398 2403 2404 2406
2412 2419 2421 2424 2427 2430 2435 2436 2438 2444 2451 2453 2456
2459 2462 2467 2468 2470 2476 2483 2485 2488 2491 2494 2499 2500
2502 2508 2515 2517 2520 2523 2526 2531 2532 2534 2540 2547 2549
2552 2555 2558 2563 2564 2566 2572 2579 2581 2584 2587 2590 2595
2596 2598 2604 2611 2613 2616 2619 2622 2627 2628 2630 2636 2643
2645 2648 2651 2654 2659 2660 2662 2668 2675 2677 2680 2683 2686
2691 2692 2694 2700 2707 2709 2712 2715 2718 2723 2724 2726 2732
2739 2741 2744 2747 2750 2755 2756 2758 2764 2771 2773 2776 2779

L06

2782 2787 2788 2790 2796 2803 2805 2808 2811 2814 2819 2820 2822
2828 2835 2837 2840 2843 2846 2851 2852 2854 2860 2867 2869 2872
2875 2878 2883 2884 2886 2892 2899 2901 2904 2907 2910 2915 2916
2918 2924 2931 2933 2936 2939 2942 2947 2948 2950 2956 2963 2965
2968 2971 2974 2979 2980 2982 2988 2995 2997 3000 3003 3006 3011
3012 3014 3020 3027 3029 3032 3035 3038 3043 3044 3046 3052 3059
3061 3064 3067 3070 3075 3076 3078 3084 3091 3093 3096 3099 3102
3107 3108 3110 3116 3123 3125 3128 3131 3134 3139 3140 3142 3148
3155 3157 3160 3163 3166 3171 3172 3174 3180 3187 3189 3192 3195
3198 3203 3204 3206 3212 3219 3221 3224 3227 3230 3235 3236 3238
3244 3251 3253 3256 3259 3262 3267 3268 3270 3276 3283 3285 3288
3291 3294 3299 3300 3302 3308 3315 3317 3320 3323 3326 3331 3332
3334 3340 3347 3349 3352 3355 3358 3363 3364 3366 3372 3379 3381
3384 3387 3390 3395 3396 3398 3404 3411 3413 3416 3419 3422 3427
3428 3430 3436 3443 3445 3448 3451 3454 3459 3460 3462 3468 3475
3477 3480 3483 3486 3491 3492 3494 3500 3507 3509 3512 3515 3518
3523 3524 3526 3532 3539 3541 3544 3547 3550 3555 3556 3558 3564
3571 3573 3576 3579 3582 3587 3588 3590 3596 3603 3605 3608 3611
3614 3619 3620 3622 3628 3635 3637 3640 3643 3646 3651 3652 3654
3660 3667 3669 3672 3675 3678 3683 3684 3686 3692 3699 3701 3704
3707 3710 3715 3716 3718 3724 3731 3733 3736 3739 3742 3747 3748
3750 3756 3763 3765 3768 3771 3774 3779 3780 3782 3788 3795 3797
3800 3803 3806 3811 3812 3814 3820 3827 3829 3832 3835 3838 3843
3844 3846 3852 3859 3861 3864 3867 3870 3875 3876 3878 3884 3889
3891 3893 3894 3901

```
COMMEN      1#
ENDCOM      1#
ESCAPE      1#
GETPRI      1#
GETSWR      1#
MULT        1#
NEWTST      1#
POP         1#
PUSH        1#
REPORT      1#
SETPRI      1#
SETUP       1#
SKIP        1#
SLASH       1#
STARS       1#
SWRSU       1#
TYPBIN      1#
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DOLA.P11 CROSS REFERENCE TABLE -- PERMANENT SYMBOLS

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1984 1994 1999 2001 2006 2012 2016 2026 2031 2033 2038 2044 2048 2058 2063
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BEQ
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691 696 702 710 716 723 728 734 742 748 755 760 766 774 780
787 792 798 806 812 819 824 830 838 844 851 856 862 870 876
883 888 894 902 908 915 920 926 934 940 947 952 958 966 972
979 984 990 998 1004 1011 1016 1022 1030 1036 1043 1048 1054 1062 1068
1075 1080 1086 1094 1100 1107 1112 1118 1126 1132 1139 1144 1150 1158 1164
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DOLA.P11 CROSS REFERENCE TABLE -- PERMANENT SYMBOLS

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	2227	2232	2238	2246	2252	2259	2264	2270	2278	2284	2291	2296	2302	2310	2316
	2323	2328	2334	2342	2348	2355	2360	2366	2374	2380	2387	2392	2398	2406	2412
	2419	2424	2430	2438	2444	2451	2456	2462	2470	2476	2483	2488	2494	2502	2508
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CLR	3898														
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	882	887	893	901	907	914	919	925	933	939	946	951	957	965	971
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DOLA.P11 CROSS REFERENCE TABLE -- PERMANENT SYMBOLS

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         688   693   699   707   713   720   725   731   739   745   752   757   763   771   777
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E07

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 DEFAULT GLOBALS GENERATED:  0

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 RUN-TIME RATIO: 230/73=3.1
 CORE USED:  32K  (63 PAGES)
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Spooler runtime 11 Seconds, 49 KCS, 289 disk reads, 4 disk writes, 82 pages